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PERSONAL.

Mr. Freeman S. Farr has been appointed Receiver of the Georgetown & Western Ry., of South Carolina.

Mr. S. H. Barnes, Superintendent of the Choctaw, Oklahoma & Gulf Ry., has resigned owing to ill health.

Mr. F. M. Webb is said to have resigned as Chief Mechanical Engineer of the London & Northwestern Ry. of England.

Mr. H. A. Lyddon has been appointed Master Mechanic of the Northern Pacific Ry., succeeding Mr. J. H. McGoff, resigned.

Mr. George P. Connard, Structural Engineer, has removed his office from 42 South Fifth St., Reading, Pa., to 805 Keith Bldg., Philadelphia.

Mr. R. C. St. John, of Chicago, has been appointed Assistant Chief Engineer of the Michigan Central Ry., with headquarters at Detroit, Mich.

Mr. J. A. Middleton has been appointed Assistant to the President, Mr. E. B. Thomas, of the Lehigh Valley R. R., with offices at 26 Cortlandt St., New York.

Mr. Charles C. Stowell, of Rockford, Ill., has been appointed Assistant Engineer under Mr. W. B. Causey, Chief Engineer of the Elgin, Joliet & Eastern Ry.

Mr. R. A. Leussler, heretofore connected with the St. Louis Traction Co., St. Louis, Mo., will succeed Mr. W. V. Morse as Secretary of the Omaha St. Ry., Omaha, Neb.

Mr. G. P. Paradis has been appointed Engineer of Maintenance of Way of the Illinois Southern Ry., with headquarters at Sparta, Ill., succeeding Mr. M. L. Morris, resigned.

The American Institute of Architects elected the following honorary members on Dec. 12: Mr. Andrew Carnegie, Mr. Samuel A. D. Abbott, Boston, and Mr. Emil Nauchamer, Paris.

Mr. E. T. Canfield, Master Car Builder of the Delaware, Lackawanna & Western R. R., has resigned, and, it is understood, will accept a position offered him by the American Car & Foundry Co.

Mr. G. A. Clarke, heretofore Division Superintendent of the Illinois Central Ry., has been appointed General Manager of the Tennessee Central Ry., with headquarters at Nashville, Tenn., succeeding Mr. L. S. Miller.

Mr. J. J. Waters has been appointed Acting Superintendent of the Mechanical Department of the Mexican International Ry., with headquarters at Cuidad Porfirio Diaz, Mex., succeeding Mr. W. Jennings, resigned.

Mr. L. W. Stanton has resigned as Electrical Engineer and Superintendent of Equipment of the Federal Telephone Co., Cleveland, O., and has opened an office in the Electric building as Consulting Telephone Engineer.

Mr. A. A. Anderson has resigned as General Manager of the Pennsylvania & Mahoning Valley Ry. Co., of Youngstown, O., with which company he has been connected since 1876, and is succeeded by Mr. W. C. Smith, Assistant General Manager.

Mr. J. Granberry Jackson, Civil Engineer, and Mr. J. A. Omberg, Jr., City Engineer, of Memphis, Tenn., have entered into partnership under the firm name of Jackson & Omberg, with offices in the Randolph Building, Memphis, for practice as Consulting Engineers.

Mr. George W. Ristine has been appointed General Traffic Manager of the St. Louis Exhibition. He will have charge of all switching and movements of cars within the grounds for delivering and distributing materials, exhibits, etc. Mr. Ristine was at one time President of the Colorado Midland Ry.

The firm of Wilson Brothers & Co., of the Drexel Building, Philadelphia, owing to the late death of Joseph M. Wilson, has been reorganized under the firm name of Wilson, Harris & Richards, Architects and Consulting Engineers. The new firm is composed of Henry W. Wilson, John McArthur Harris and Howard S. Richards.

Mr. Burton J. Ashley, Civil and Consulting Engineer, recently resigned as Chief Engineer in the founding of Zion City, Ill., as announced in these columns in a recent issue, to which work he has given his exclusive attention for the past four years, has opened up his private practice again in Suite 523, The Temple, Chicago. He reports 8,000 people in Zion City at the end of 16 months.

Mr. J. B. Hutchinson, General Manager of the Pennsylvania R. R., has been relieved and will be made Assistant to Charles E. Pugh, Second Vice-President, on Jan. 1, 1903, and take up the duties of that position after the expiration of a leave of absence of four months. Failing health induced Mr. Hutchinson to give up his office. Mr. Hutchinson is 58 years of age and entered the employ of the Pennsylvania R. R. in 1863.

OBITUARY.

Mr. John G. Meyers, Architect, and manufacturer of artificial stone, died in Washington, D. C., early this week at the age of 72 years.

Mr. William S. Jenks, President of the Jenks Shipbuilding Co., died in the company's office in Port Huron, Mich., on Dec. 12. Mr. Jenks was 84 years of age.

Mr. William H. Bull, Civil Engineer, died in Oneida, N. Y., on Dec. 6, aged 63 years. During the past summer he had been employed by the Board of Public Works of Oneida as Assistant City Engineer.

Mr. George W. Prescott, one of the founders of the Union Iron Works, of San Francisco, Cal., died Dec. 12 of heart disease. In 1850 he went to San Francisco from Maine, and 25 years later founded the shipbuilding firm of Prescott, Scott & Co., which later became the Union Iron Works.

Mr. A. N. Ogle, Chief Clerk of the Duluth & Iron Range Ry., at Two Harbors, Minn., died at Battle Creek, Mich., on Dec. 5, of gastritis. He was born in 1862, and graduated from the University of Iowa as a civil engineer in 1883. For two years he was employed in the Mechanical Department of the Missouri Pacific road at St. Louis, and later with the same company at Kansas City.

ENGINEERING SOCIETIES.

COMING MEETINGS.

AMERICAN ECONOMIC ASSOCIATION.
Dec. 26-29. Annual meeting at Philadelphia, Pa. Secy., F. A. Fetter, Ithaca, N. Y.

AMERICAN FORESTRY ASSOCIATION.
Dec. 31. Annual meeting at Washington, D. C.

PACIFIC NORTHWEST SOCIETY OF ENGINEERS.
Jan. 3, 1903. Annual meeting at Seattle, Wash. Secy., G. F. Cotterill, Seattle, Wash.

ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.
Jan. 8. Annual meeting at Pittsburg, Pa. Secy., C. W. Ridinger.

LOUISIANA ENGINEERING SOCIETY.
Jan. 10, 1903. Annual meeting at New Orleans, La. Secy., G. W. Lawes, New Orleans, La.

NEW ENGLAND WATER-WORKS ASSOCIATION.
Jan. 14. Annual meeting at Boston, Mass. Secy., Willard Kent, Narragansett Pier, R. I.

MICHIGAN ENGINEERING SOCIETY.
Jan. 20, 21 and 22, 1903. Annual meeting at Battle Creek, Mich. Secy., F. Hodgman, Climax, Mich.

AMERICAN SOCIETY OF CIVIL ENGINEERS.
Jan. 21, 22, 1903. Annual meeting at New York city. Secy., C. W. Hunt, 220 W. 57th St., New York.

ILLINOIS SOCIETY OF ENGINEERS AND SURVEYORS.
Jan. 21, 23. Annual meeting at Aurora, Ill. Secy., A. L. Kuehn, Champaign, Ill.

OHIO SOCIETY OF SURVEYORS AND CIVIL ENGINEERS.
Jan. 20, 21, 1903. Annual meeting at Columbus, O. Secy., W. H. Boughton, Granville, O.

CANADIAN SOCIETY OF CIVIL ENGINEERS.
Jan. 27, 28, 29, 1903. Annual meeting at Montreal, Canada. Secy., C. H. McLeod, Montreal.

ENGINEERING ASSOCIATION OF THE SOUTH.—At the December meeting, held in the society rooms in the Berry Block, Nashville, Tenn., on Dec. 11, a paper was presented by Prof. W. H. Schuerman on "Some Hydraulic Diagrams." After this paper Dr. W. L. Dudley presented a series of photographs of European glaciers, accompanying them by a brief explanatory talk.—Secy., R. L. Lund, Nashville.

FRANKLIN INSTITUTE.—The following papers will be read before the coming section meetings of the Institute: "Stability of Nitrocellulose and Nitrocellulose Powder," by Mr. Albert, to be read at the meeting of Thursday, Jan. 1, 1903. At this meeting also Prof. E. C. Foster may present a paper on "The Commercial Production of Oxygen from Liquid Air." On Thursday, Jan. 8, 1903, Messrs. C. C. Rosenberg and H. S. Balliet will present a paper on "Automatic Electric Railway Signaling."

PACIFIC NORTHWEST SOCIETY OF ENGINEERS.—The regular December meeting was held on Saturday, Dec. 6, in the Chamber of Commerce rooms at Seattle, Wash., Mr. R. H. Thomson presiding. A paper was read by Mr. C. E. Fowler on "The Corrosion of Iron and Steel." The subject of the paper was then informally discussed by the members present.

The society (now less than a year old) shows a healthy increase at each meeting. The annual meeting will be held on Saturday, Jan. 3, 1903, and at that time new officers will be elected.—Secy., G. F. Cotterill, Seattle, Wash.

NEW YORK RAILROAD CLUB.—The next meeting of this club will be held at 8 p. m., Friday, Dec. 19, at Carnegie Hall, 154 W. 57th St., New York. The general subject will be "The Operation of the Per Diem System of Settlement for Car Hire," and papers on this subject will be presented by prominent car service officers from different sections of the country, so that the working of the system under various conditions will be reported. Among those who will present papers are: Mr. M. B. Casey, Supt. Car Service, D., L. & W. Ry.; Mr. W. H. Rosevear, Gen'l Car Accountant, Grand Trunk Ry.; Mr. J. R. Cavanagh, Supt. Car Service, C., C., C. & St. L. Ry., and Pres. Western Assn. Car Service Officers.—Secy., W. B. Yereance, So. Orange, N. J.

CANADIAN SOCIETY OF CIVIL ENGINEERS.—The next meeting, to be held on Thursday, Dec. 18, will be devoted to discussion of a paper on "Sewage Disposal," presented some time ago by Mr. C. H. Rust, and of a paper by Mr. A. W. Robinson, on "The Economy of Large Ships." Mr. R. S. Lea will speak on the first-named subject, illustrating his remarks with a series of lantern views. The second will be discussed by Mr. E. L. Corthell.

The last two meetings of the society, held on Nov. 20 and Dec. 4, dealt respectively with "Sewage Disposal," in a paper of Mr. C. H. Rust, and "An Unrecorded Property of Clay," on which subject Mr. H. J. Cambie presented a paper (this paper will be reprinted in a future issue of Engineering News).—Secy., C. H. McLeod, Montreal.

BROOKLYN ENGINEERS' CLUB.—The annual dinner of this club was held on the evening of Thursday, Dec. 11, at the Oxford Club, Brooklyn, N. Y. The election of officers also took place at this meeting. Mr. W. G. Ford, the president of the club, was in the chair, and nearly a hundred members and guests were in attendance. The principal toasts were "Our Work," to which Mr. J. V. Davies responded; "The Man Across the River," Col. H. G. Prout; and "Interborough Communication," Mr. F. Crowell.

After the dinner a business session was held, at which the following officers were elected to serve during the coming year: President, Mr. A. J. Provost, Jr.; Vice-President, Mr. F. S. Woodward; Secretary, Mr. J. Strachan; Treasurer, Mr. J. Middleton. The reports of the several committees and of the Directors showed the club to be in a prosperous condition.

ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.—The regular meeting for December was held on the evening of Dec. 16, at the rooms of the society, 410 Penn Ave., Pittsburg. Papers on the following subjects were presented for discussion: "Astronomical Equipment for the Chilian Observatory," by Prof. John A. Brashear; "Some Interesting Experiences Connected with the Manufacture and Installation of Cables," by Mr. H. W. Fisher; "Notes on the Design of Riveter Yokes," by Mr. C. B. Albree; "Methods of Forty Years Ago," and "Some Unscheduled Post-Graduate Courses," by Mr. Wm. Metcalf; "Early Experiences in Transportation," by Mr. A. Snyder; "Professional Reminiscences," by Capt. D. P. Jones. At the regular meeting for January the general subject of Pittsburg's transportation problems will be discussed. The annual meeting of the society will be held on Jan. 8, as noted in the announcements above.

TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ x 6 ins., 6 x 9 ins., and 9 x 12 ins.)

THREAD-MILLING MACHINE.—Pratt & Whitney Co., Hartford, Conn. Paper; 6 × 9 ins.; pp. 42; illustrated.

This is an entirely new machine. Its purpose is to produce screw threads, worms, spiral gear teeth and similar work by a method which brings this class of work into comparison with the other products of modern methods of machine shop manufacture. The object of the machine is to give great precision of work with even less labor cost than is required for cutting quite ordinary threads in the lathe. The machine as exhibited in this catalogue is a cross between lathe and miller, with a number of novel features. In place of a lathe-carriage there is a traveling carriage on which is mounted a frame carrying a milling cutter. The frame can be tilted to give any pitch angle, and tables are provided for getting the proper angle for any desired thread. The cutter is driven by a series of parallel independent round belts, from a drum on the countershaft. The spindle in the headstock is also driven by round belts running on grooved cone pulleys. Small work is carried in the headstock by collets and fastened by a clamping ring; larger work is carried on a live center, and the face plate has a clamp for holding the tail of the clamping dog without backlash. The milling cutters used are peculiar. The teeth are staggered by virtue of a novel form of grinding used, and thus the chip from each tooth can roll away freely. A special grinding machine is required to grind the cutters. The travel of the cutter carriage is produced by a nut traveling on a lead screw.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
Dec. 18.	Light plant,	North Amherst, O.	Dec. 11
Dec. 18.	Car shops (Mfg. Plants),	Moncton, N. B.	Dec. 11
Dec. 18.	Breakwater superstructure,	Milwaukee	Nov. 20
	Advertised, Eng. News, Nov. 20 to Dec. 18.		
Dec. 19.	Buildings,	Scranton, Pa.	Nov. 27
Dec. 19.	Garbage disposal,	Kansas City, Mo.	Dec. 4
Dec. 19.	Steam tenders, etc.,	Nashville, Tenn.	Nov. 20
	Advertised, Eng. News, Nov. 20 to Dec. 18.		
Dec. 19.	Broken stone, etc.,	New Brighton, N. Y.	Dec. 11
Dec. 19.	Building,	St. Louis, Mo.	Dec. 18
Dec. 20.	Water-works,	Havre, Mont.	Dec. 18
Dec. 20.	Rebuilding jail,	Marysville, Cal.	Dec. 18
Dec. 20.	Search light tower,	Washington, D.C.	Dec. 18
Dec. 20.	Sewage pumping station,	Washington, D.C.	Nov. 13
	Advertised, Eng. News, Nov. 13 and Dec. 4.		
Dec. 20.	Shop building,	Charleston, S. C.	Nov. 20
Dec 20.	Pumping engines,	Louisville, Ky.	Oct. 23
	Advertised, Eng. News, Oct. 23 to Dec. 25.		
Dec. 20.	Power plant,	Philadelphia, Pa.	Nov. 27
Dec. 20.	Road work,	Williamstown, N. J.	Dec. 4
Dec. 20.	Laboratory,	Baton Rouge, La.	Dec. 4
Dec. 20.	Buildings (4),	Sheridan, Wyo.	Dec. 4
Dec. 22.	Training dikes,	Savannah, Ga.	Nov. 27
	Advertised, Eng. News, Nov. 27 to Dec. 25.		
Dec. 22.	School buildings,	New York, N. Y.	Dec. 11
Dec. 22.	Tunnel lining,	Paterson, N. J.	Dec. 11
	Advertised, Eng. News, Dec. 11 and 18.		
Dec. 22.	Water-works,	Marieville, Que.	Dec. 11
Dec. 22.	Brick sewer,	Canonsburg, Pa.	Dec. 11
Dec. 22.	Sewer,	Norristown, Pa.	Dec. 18
Dec. 22.	Bridge rebuilding,	New York, N. Y.	Dec. 18
Dec. 23.	Paving,	Cleveland, O.	Dec. 18
Dec. 23.	Power plant,	New Orleans, La.	Dec. 11
Dec. 23.	Locks and dams,	Mobile, Ala.	Nov. 27
	Advertised, Eng. News, Nov. 27 to Dec. 25.		
Dec. 23.	Wharf,	Fort Barrancas, Fla.	Dec. 4

Dec. 23. Garbage crematory, Fort Getty, S. C. ..... Dec. 4
Dec. 24. Foundations, Annapolis, Md. ..... Dec. 11
Dec. 24. Stone crusher, etc., Brooklyn, N. Y. ..... Dec. 11
Dec. 24. Tunnel remodeling (w.-w.), Chicago, Ill. ..... Dec. 11
Dec. 24. Paving, Brooklyn, N. Y. ..... Dec. 11
Dec. 24. School building, New York, N. Y. ..... Dec. 18
Dec. 24. Dredging, Brooklyn, N. Y. ..... Dec. 18
Dec. 26. Dredging, Savannah, Ga. ..... Dec. 4
Advertised, Eng. News, Dec. 4 to Jan. 1.
Dec. 26. Garbage crematory, Ft. Brady, Mich. ..... Dec. 4
Dec. 27. Building, Port Huron, Mich. ..... Dec. 4
Dec. 27. Paving, Kalamazoo, Mich. ..... Dec. 4
Advertised, Eng. News, Dec. 4 to Jan. 1.
Dec. 27. Sewer system, Portland, Me. ..... Dec. 4
Dec. 27. Water meters (15,000), Cleveland, O. ..... Dec. 4
Advertised, Eng. News, Dec. 4 to 18.
Dec. 27. Dynamo, etc., Cincinnati, O. ..... Dec. 18
Dec. 27. Water pipe, San Diego, Cal. ..... Dec. 18
Dec. 29. Piles, Superior, Wis. ..... Dec. 11
Dec. 29. Roads and walks, Winthrop, Mass. ..... Dec. 4
Dec. 29. Dredging, Mobile, Ala. ..... Dec. 4
Advertised, Eng. News, Dec. 4 to Jan. 1.
Dec. 29. Water-works, Gillett, Wis. ..... Dec. 11
Dec. 29. Sewer, Rensselaer, Ind. ..... Dec. 11
Dec. 29. School Buildings, New York, N. Y. ..... Dec. 18
Dec. 29. Paving, etc., Terre Haute, Ind. ..... Dec. 18
Dec. 29. Mechanical stokers, Kansas City, Mo. ..... Dec. 18
Advertised, Eng. News, Dec. 18 and 25.
Dec. 30. Hot air heating, Victoria, B. C. ..... Dec. 18
Dec. 30. Bridge, Huntington, Ind. ..... Dec. 18
Dec. 30. Light and water-works, Searcy, Ark. ..... Dec. 4
Advertised, Engineering News, Dec. 4.
Dec. 30. Paving, St. Augustine, Fla. ..... Dec. 4
Dec. 30. Water-works bonds, Nampa, Idaho ..... Dec. 11
Dec. 31. Bridges (24), Terre Haute, Ind. ..... Dec. 11
Dec. 31. Water-works supplies, Baltimore, Md. ..... Dec. 18
Dec. 31. Bridges (2), Charleston, Mo. ..... Dec. 18
Jan. 1. Electric tramway, France ..... Nov. 6
Jan. 1. Irrigation system, San Saba, Tex. ..... Dec. 4
Jan. 1. Schools (2), Huntington, W. Va. ..... Dec. 11
Jan. 2. Pumping engine, Kansas City, Mo. ..... Dec. 11
Advertised, Eng. News, Dec. 11 to Jan. 1.
Jan. 2. Buildings, (3), Boston, Mass. ..... Dec. 4
Advertised, Eng. News, Dec. 4 to Jan. 1.
Jan. 3. Dredging, etc., Richmond, Va. ..... Dec. 4
Advertised, Eng. News, Dec. 4 to Jan. 1.
Jan. 3. Elevator, Helena, Mont. ..... Dec. 11
Jan. 5. Dredging, Boston, Mass. ..... Dec. 4
Jan. 5. Bridges (7), Cumberland, Md. ..... Nov. 27
Jan. 5. Sewer system, Lawton, Okla. Ter. ..... Dec. 11
Advertised, Eng. News, Dec. 11 and 18.
Jan. 6. Ash elevator, St. Louis, Mo. ..... Dec. 4
Advertised, Eng. News, Dec. 4 and 11.
Jan. 6. Court house bonds, Decorah, Ia. ..... Dec. 11
No date. Manufacturing plant, England ..... Nov. 20
No date. Railway (B. & O.), Chicago, Ill. ..... Nov. 20
Advertised, Eng. News, Nov. 20 to Dec. 11.
No date. Railway (O.), Cincinnati, O. ..... Dec. 18
Advertised, Eng. News, Dec. 18, 25, Jan. 1.
" . Bridge, White Eagle, Okla. Ter. ..... Dec. 18

RAILWAYS.

ARKANSAS, RED RIVER & PARIS.—W. A. Carroll, Mena, Ark., writes us that the right of way has been secured for the first 32 miles and that the first eight miles have been graded and is ready for rails. The line will be 72 miles long. W. S. Dyer is Pres., and A. D. Moore Ch. Engr., both of Kansas City, Mo.

BALTIMORE & OHIO.—Plans have just been completed by E. T. Horn, Asst. to the Gen. Supt. at Pittsburg, Pa., that provide for the new yards the company will build at New Castle Junction, Pa. These yards will be 8,500 ft. in length, with 14 classification westbound and seven eastbound tracks, and will have a capacity of 2,000 to 3,000 cars.

BURNSVILLE & EASTERN.—S. D. Brady, Ch. Engr, Parkersburg, W. Va., writes that surveys have been about completed for this line. J. T. Blair, Parkersburg, is Pres.

CANADIAN NORTHERN.—Surveying parties have been started from Fort William, Ont., to locate a route from that point to White river, where the proposed extension will meet the Algoma Central. Surveyors are also at work in both directions from Edmonton, locating a route for the road to the east. D. B. Hanna, Winnipeg, Man., is Gen. Supt.

CHERRY RUN & POTOMAC VALLEY.—A map of the profile and location of the proposed extension of the B. & O., to be known by the above name, has been filed with the clerk of the court at Berkely Springs, W. Va. The location extends from the Cherry Run through Fulton and Bedford counties, Pennsylvania to Fairhope.

CIRCLE BELT RY.—A charter has been issued in Missouri to this company, capitalized at $150,000, to build a standard gage road, 15 miles in length, beginning at the State line between Missouri and Kansas and running easterly, all within Jackson county. The company will have its headquarters in St. Louis.

COLORADO SPRINGS & CRIPPLE CREEK DISTRICT RY.—Bonds to the amount of $3,600,000 will be issued by this company, a part of phich will provide additional funds for the extension and improvement of the system. T. L. Waggener, Colorado Springs, is Ch. Engr.

DELAWARE, LACKAWANNA & WESTERN.—Wm. K. McFarlin, Engr., has filed with the City Engineer of Orange, N. J., plans for the track elevation through this city. The elevation will be on a structure of concrete.

GRANGER, GEORGETOWN, AUSTIN & SAN ANTONIO.—The charter of this company has been filed with the Secretary of State of Texas, which provides for the construction of a line from Granger, on the M. K. & T. Ry. via Georgetown to Austin, a distance of about 50 miles. Capital stock, $50,000. A. A. Allen, St. Louis, is Pres., and C. M. Jones, Granger, is Vice-Pres. The directorate is composed largely of memoers of the M. K. & T. Ry. directorate and management and the line will be operated by that company. The grade and right of way of the former Georgetown & Granger Ry., about 20 miles, has been acquired. Rails on that line were never laid. It is stated by the company that the remainder of the line will be located at once and constructed within the coming year.

ILLINOIS, IOWA & MINNESOTA.—The secretary of state of Illinois has granted a charter to this company to build a railway from Momence, Kankakee county, through the counties of Kankakee, Will, Grundy, Kendall, Kane, De Kalb, Ogle, Boone, Winnebago, Stevenson and Jo Davies to East Dubuque, Jo Davies county. The capital stock is $100,000, and the incorporators and first board of directors are: John C. Murphy, Porte Crego, Benjamin P. Alschuler, Edith F. Hinckley and Fremont L. Taylor, all of Aurora, Ill.

IOWA & ST. LOUIS.—Grading is reported to have been completed on this line from Mystic, Ia., to Macon, Mo., a distance of 83 miles, and 60 miles of track has been laid from Centreville to a point near Novinger, Mo. Surveying parties are now laying out the remainder of the route, and it is expected that grading on the line between Mystic and Sioux City will soon be started. The completed line will run from Sioux City, Ia., to St. Louis, a distance of about 500 miles. H. F. Reddig, Kansas City, Mo., is Pres.

LITTLE KANAWHA R. R.—A report from Parkersburg, W. Va., on Dec. 10 states as follows: "The parties who were awarded the contract for the construction of 71 miles of the extension of the Little Kanawha R. R. to Burnsville failed to accept it, and contracts were signed to-day with Gooch, Rinehart & Dennis, of Staunton, Va.; J. R. McArthur, M. Arthur and H. W. Magee, of Chicago. The work is to be completed within 16 months." Information relating to the letting of these contracts, received from S. D. Brady, Ch. Engr., Parkersburg, W. Va., was noted in our issue of Dec. 4, and state that the contract was let to T. N. Clements & Co. and John Henry Miller, both of Philadelphia.

LOUISIANA & ARKANSAS.—An extension of 23 miles is now nearly completed from Stamps, Ark., on the St. Louis Southwestern Ry., to Hope, on the St. L., I. M. & S. Ry. A 28-mile branch is being built from Packton to Jena, and surveys are being made for an extension of the main line from Winnfield to Alexandria, La., about 50 miles.

MANITOBA.—It is reported that the Winnipeg board of works propose to build and equip a railway to the city quarry to cost about $138,425.

MISSISSIPPI & SOUTHEASTERN.—A charter has been secured by this company in Mississippi to build a road from Webb, in Tallahatchie county, to Helena, Ark., going via Clarksdale and touching the Mississippi River at Glenndale. The capital stock will be placed at $100,000.

MORNING STAR.—The Arkansas state board of railway incorporators has extended the time within which the company is required to build 1-10 of its line. The original charter was granted June 5, 1901, and 18 months was specified as the limit of the time for the construction of the road, which is to have a total length of 125 miles. The total cost is estimated at $3,000,000, which is the amount of the capital stock. The road would pass through the counties of Marion, Searcy, Baxter, Stone, Independence and Jackson. Caleb H. Jackson, Chicago, is the principal shareholder. Newport has already subscribed a bonus of $10,000, and will also give the right of way and terminal facilities.

NIAGARA TRANSFER RY.—Incorporated in New York with $200,000 capital stock to construct and operate a steam railway from Buffalo to Tonawanda. John C. Conway, John E. Selkirk and Henry J. Rosecheam, Buffalo, are directors.

NORFOLK & WESTERN.—Chas. S. Churchill, Engr. M. of W., Roanoke, Va., writes us that the following are the extensions since the company's fiscal report of 1901: Speedwell Extension, 6.50 miles; Crane Creek Branch, 7.67 miles; Briar Mountain, 2.12 miles; Thacker Branch, 2.23 miles; Washington Mills Extension, 5.50 miles; Chestnut Creek Branch, 2.64 miles; Tug Fork Branch, 6 miles; total addition mileage added in Virginia, 14.64 miles; total addition mileage added in W. Virginia, 18.02 miles; acquired C. P. & V. Division, Ohio, 105.92 miles; new road under contract and being constructed Naugatuck, W. Va., to Cassville, W. Va., 33.5 miles; Cassville, W. Va., to Kenova, W. Va., 25.5 miles; under survey Widemouth Branch, Cephas to Junction Widemouth, 16 miles.

OHIO.—Bids are wanted by H. M. Strong, contractor, Hotel Sterling, Cincinnati, O., for constructing 17 miles of double-track railway, from 23 to 40 miles from Cincinnati, most of it very heavy work, with approximately 2,500,000 cu. yds. of material to be removed. Portions of it has considerable loose rock. The work can be cut up into 10 or more sections. Transportation from St. Louis, Chicago, Cleveland or intermediate points free, and also 60-lb. rails and frogs. The work must be completed before Dec. 1, 1903, as stated in our advertising columns.

PENNSYLVANIA.—Former Senator Wm. Flinn, Chn. Bd. Directors of the Union Steel Co., a $50,000,000 corporation, has announced that a new road will be built at once from the Connellsville coke regions via Donora and Sharon to Elk Harbor, on Lake Erie. The road will cost $15,000,000 and will be built by the parties interested in the Union Steel Co.

POTOMAC & ALLEGHENY.—A charter has been secured for this company in Pennsylvania with $310,000 capital stock to build a line eastward from Mt. Dallas to a point in Dublin township, Fulton county. The proposed line will probably be a B. & O. project.

ST. LOUIS & SAN FRANCISCO.—A charter has been issued to this company in Mississippi providing for the construction of branch lines in Mississippi. B. F. Yoakum, Pres. St. L. & S. F. R. R., and F. H. Hamilton, Secy. and Treas., are the incorporators.

SOUTHERN.—This company has recently filed a mortgage in favor of Blair & Co., of York, Pa., for $4,144,396, the money to be expended in the purchase of 89 locomotives, 2,500 gondola cars, 500 box cars and 104 cars of other descriptions. It is reported that a survey for a new route between Mooresboro and Forest City, six miles, has been surveyed.

STOCKTON & BECKWITH PASS.—Articles of incorporation have been filed by this company in California, capitalized at $15,000,000. The proposed road will run from Stockton to Sacramento along the Feather River through the Delaney Canyon, across Cierra Valley to Beckwith Pass, and from there to the state line near Purdoy, an estimated distance of 270 miles. The road will be standard gage. H. F. Fortmann, John Treadwell and Tirey L. Ford are intersted.

SUFFOLK & CAROLINA.—Wm. H. Basley, of this company has announced that the contract for the branch from Basley to Elizabeth City, Md., has been awarded. The line runs through the boglands of the Dismal Swamp en route.

TENNESSEE.—Reports from Johnson City, Tenn., state that the J. M. Brick Lumber Co. will build 13 miles of railroad from Huntdale, N. C., to a large body of timber recently purchased in Yancy county, N. C.

TENNESSEE CENTRAL.—We are advised by H. C. McCrary & Co., contractors, care Arlington Hotel, Clarksville, Tenn., who are the contractors for the line to be built by this company from Nashville to Clarksville, Tenn., and Hopkinsville, Ky., that sub-contracts for the work on the line are now being let at their office in Clarksville. The right of way has been secured between Clarksville and Hopkinsville. But little progress has been made as the work is just opening. The following contractors have started work on their respective sections: Robt. Russell & Co., at Hopkinsville, with 75 mules and outfit; Garner & Co., M. J. Price, Sam Anderson and Kestler & Oliver, at the Clarksville end. The inclement weather has delayed the progress considerably. R. E. Harwood, Nashville, Tenn., is Ch. Engr. of the company.

TERMINAL R. R. ASSOCIATION OF ST. LOUIS.—The contract for the extension and improvement of the company's terminals in St. Louis, Mo., has been awarded to James Stewart & Co., St. Louis, and the Geo. A. Fuller Co., New York, building contractors. The contracts cover the baggage subway, to cost about $500,000; the building of an addition to the baggage house, the removing of the express office, the construction of a power house and the erection of a tower for the interlocking machines, the removing of the roundhouses and machine shops from St. Louis to East St. Louis, the construction of these buildings and other work. The entire work is to be finished before 1904.

TRINITY & BRAZOS VALLEY.—We are informed that contracts will be let in a few days for the construction of the T. & B. V. from Hillsboro to Mexia, about 50 miles, the rails for same having nearly all been delivered. Surveys are being made north to Cleburne, about 20 miles, and contracts for right of way have been closed. The line is projected southeast via Trinity to Beaumont and the Sabine River. The Railroad Commission of Texas has approved a crossing at grade, to be protected by an interlocking device, at the point where the Trinity and Brazos Valley Railway will cross the M. K. & T. line at Hillsboro. R. H. Baker, Austin, is Gen. Mgr., and Sam Thompson, Hillsboro, is Ch. Engr.

STREET AND ELECTRIC RAILWAYS

BANGOR, ME.—F. O. Beal, Pres. Pushaw Lake R. R., Bangor, writes that the company has just completed its organization and is prepared to begin work in the early spring. The line will be about 4 miles long.

LEOMINSTER, MASS.—It is reported in local papers that the stockholders of the Worcester Consolidated St. Ry. Co. have voted to build a new line from the end of the present Greendale line in Worcester to Leominster through West Boylston and Sterling. Application for franchise will be made at once. The new line will bring Leominster within 19 miles of Worcester, now about 22 miles distant by rail. Francis H. Dewey is Pres., and J. W. Lester Treas.

WORCESTER, MASS.—The Worcester & Northern St. Ry. Co. will shortly organize with $150,000 capital stock to build a line from Jefferson through Princeton to Westminster. The line will run from the terminus of the Worcetser & Holden St. Ry. at Jefferson through Princeton, to the center of Westminster. A location up Mt. Wachusett, to be operated by electricity and cable, will be asked for. Stephen Salisbury, D. C. Miles, Westminster; Harry C. Beaman, Princeton, and Henry W. Warren, Holden, are interested.

GREENWICH, CONN.—Reports state that the long-projected Ridgefield & Port Chester R. R. will be built in connection with the New York & Portchester R. R., a comparatively new corporation which has for its purpose the construction of an electric railway in the suburbs of New York city and into Connecticut. The first-named company was chartered 31 years ago, and some $250,000 has been spent on the line, but the work was never completed. The organization has been kept up, however. Hiram K. Scott, Ridgefield, is Pres., and R. J. Walsh, Greenwich, is Secy. and Treas.

HARTFORD, CONN.—Application will be made to the next General Assembly for the incorporation of the Hartford & Norwich St. Ry. Co., for the construction of a trolley line between Hartford and Norwich.

NEW HAVEN, CONN.—Surveys have been started by W. A. Sperry, Engr., New Haven, for the new electric line from Bristol to Terryville. The line will be constructed during the winter and the ties and rails will be laid in the spring. The line will be owned and operated by the Bristol Tramway Co. and will cost about $80,000.

ALBION, N. Y.—The Albion Ry. Co. will push the work of construction east from Albion. The cost of building the proposed line has been more than $10,000 a mile.

ITHACA, N. Y.—The promoters of the Ithaca-Auburn trolley expect to begin actual construction by Jan. 1 with a view of completing the work and having the line ready for operation by next June. The preliminary surveys have been finished. The road is to be about 37 miles long and will touch at Portland Point, Ludlowville Depot, Lake Ridge, King's Ferry, Ledgers and Scipioville. It is estimated to cost about $800,000.

MINEOLA, N. Y.—The board of supervisors has received application from the Glen Cove R. R. Co. for a franchise over certain highways in Glen Cove, extending from the Landing road to Long Island R. R. station at Sea Cliff. The company is capitalized at $50,000. Theo. K. Hazard, Joseph F. Carey and Wm. J. Harrison are stockholders.

NEW YORK, N. Y.—The Board of Aldermen voted on Dec. 16 for the adoption of the Pennsylvania R. R. Co.'s tunnel franchise in the city. The franchise is perpetual, but at the end of 25 years there will be a readjustment of the terms. It calls for a tunnel under the North River, under 31st St., across the city, under the East River to Queens borough, reaching the surface near Thompson Ave. and Purves St. The terminal station in New York will occupy the entire blocks bounded by Seventh and Eighth Aves. and 31st and 33d Sts. The motive power to be used in the tunnel is to be either electricity or such other power not involving combustion in the tunnel. The securing of this franchise will open the way for the Pennsylvania R. R. to carry out its plan for a connection with the Long Island R. R. and with the New York, New Haven & Hartford, the latter in the Bronx. It is announced that Samuel Rea, Fourth Vice-Pres. Pennsylvania R. R., will be made Resident Vice-President in New York to supervise the construction of the tunnel and terminal.

COLLEGEVILLE, PA.—E. S. Moyer, Pres. Souderton, Skippack & Fairview Electric Ry. Co., Collegeville, writes that the work of securing the rights of way for this line is in progress. The line will be 17 miles long.

HARRISBURG, PA.—A charter has been secured by the Canton & East Liverpool R. R. for a line to run from a point on the state line between Pennsylvania and Ohio, near the intersection of Beaver Creek, to a point on the Cleveland & Pittsburg R. R. at Smith's Ferry, Beaver county. The company is capitalized at $10,000. J. C. Richardson, R. G. Missimer, B. F. Williams and W. J. Williamson, Philadelphia, are among the incorporators.

LOUISVILLE, KY.—The stockholders of the Louisville, Anchorage & Pewee Valley Electric R. R. Co. have voted for improvements involving the expenditure of $1,250,000. Bonds will be issued at once to pay for an extension of the line from Lakeland to Shelbyville and from Beards to Lagrange. The new lines will be in operation by next summer if the plans of the company are carried out.

COLUMBUS, O.—The Lorain & Eastern Ry. Co. has recently filed articles of incorporation in Ohio with $1,000 capital stock for the purpose of building a line of railway from Rocky River to Lorain and Elyria. A. B. Stuber, Geo. L. Cooley and Henry W. Stecker are incorporators. ——The Cincinnati, Dayton & Fort Wayne Ry. has been incorporated with a capital stock of $1,000,000 to build an electric line running from Cincinnati and connecting with the system running to Fort Wayne, Ind., connecting at the Indiana state line. J. F. Welliver, B. B. Levy and G. F. Giele are interested.

ANDERSON, IND.—Will H. Bloss, Ch. Engr. Union Traction Co., of Indiana, wrote that the contract for one-half of the company's extensions (not road, as stated in our last issue) had been let and the work practically completed. The company is already operating about 150 miles of electric interurban roads.

LISBON, O.—Two electric railway companies, styled the Youngstown & Southern and the Youngstown, Salem & East Liverpool, with headquarters in Youngstown and Cleveland, respectively, are seeking franchises in this city for the proposed lines. The Youngstown & Southern, represented by Asa W. Jones and others, has its route surveyed and private right of way from Youngstown to Columbiana, a distance of 16 miles. The survey has been continued to Leetonia, and agents are now taking up the right of way there and in the southern part of the county. The construction is to be commenced as early as possible

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next spring and work will be started on two power houses soon after the first of the year. Max Goodman, Attorney, Cleveland, and Spence Brothers, of this city, represent the Cleveland capitalists, who are going to finance the other company, whose surveying corps, in charge of J. F. Spence, is running a line and taking up rights of way from Youngstown through Canfield, Calla and Washingtonville to Salem, and thence through Shelton's grove and Lisbon to East Liverpool.

INDIANAPOLIS, IND.—The board of county commissioners has granted a franchise to the Indianapolis, Lebanon & Frankfort Traction Co.——The Western Indiana Traction Co., which proposes to build an electric railway from Vincennes to Sullivan, has filed articles of incorporation with $100,000 capital stock. Edgar H. De Wolf, F. J. S. Robinson and Samuel M. Williams are interested.

AURORA, ILL.—F. Y. Keator, of Hord & Keator, 137 Downer Place, Aurora, informs us that an ordinance for the proposed electric railway through that city was passed Nov. 21, and the ordinances in the other points through which the proposed electric line will run are now being arranged for. No rights of way have been secured. The capital is assured. The line will be 12 miles long.

MOUNT VERNON, ILL.—Capitalists of Mount Vernon are organizing a company to build an electric line from this city to Belleville. The proposed line will pass through the towns of Ashley, Nashville and Mascoutah, and will connect with the line running to St. Louis. The Belleville company will supply the power for operating purposes.

QUINCY, ILL.—James E. Adams, Secy. Quincy & Southeastern Electric Ry. Co., Quincy, writes us that contracts will soon be let for part of this line. Bracy, Howard & Co., Quincy Bldg., Chicago, have already secured a part of the work. The capital has been mostly secured. The line will be 130 miles long and will run from Beardstown on the east to Nista on the north. Geo. Wells, Quincy, is Pres. J. H. Flagg, Quincy Bldg., Chicago, is Ch. Engr.

BEAVER DAM, WIS.—A franchise has been granted to the Madison & Northwestern Ry. The proposed road is to be commenced within 18 months and be in operation in three years. It will run from Madison to Green Bay.

KAUKAUNA, WIS.—S. W. Curtis, Engr., Kaukauna, writes, under date of Dec. 13, as follows: "The right of way has been secured for an electric railway from Green Bay, Wis., south through De Pere and Wrightstown to Kaukauna, and surveys are nearing completion. The company (Knox Construction Co.) has been organized, with Geo. W. Knox, Chicago, Pres.; R. M. Heskett, Green Bay, Mgr., and R. W. Curtis, Engr. It is expected that construction will begin about the first of April and rails are on order."

NEWTON, KAN.—The Union Electric Ry. & Construction Co. has applied to the commissioners of Harvey county for a right of way for the electric railway through that county, connecting McPherson, Newton, Arkansas City and intermediate points with Wichita. The road will handle both passenger and freight traffic, and will eventually branch out to other nearby towns.

JEFFERSON CITY, MO.—The Citizens' Elevated Electric Ry. of St. Louis has been incorporated with $100,000 capital stock to build and operate a double track elevated street railway, to be operated by electricity, in the city and county of St. Louis. John Dwyer, Theo. F. Meyer and E. R. Darlington are interested.

GALVESTON, TEX.—The Galveston City Ry. will extend its West Broadway electric line from 42d St. and Ave. Q to the western end of Ave. T. Work will begin immediately.

RITZVILLE, WASH.—The board of county commissioners have granted a conditional franchise for an electric street railway to P. H. Clark and C. Lunceford.

SALEM, ORE.—The Baker City & Oregon Wonder Electric Ry. & Improvement Co. has been incorporated with $15,000,000, to construct an electric railway from Baker City to the Oregon Wonder group of mines, in Grant county. E. W. Bonta, S. S. Hibbs and W. C. Drahley are incorporators.

OROVILLE, CAL.—Bids are asked until Jan. 8 for the purchase of the franchise to construct and operate an electric railway over certain roads in Butte county, as applied for by Fred. M. Clough. H. T. Batchelder, County Clk.

OTTAWA, ONT.—Application will be made at the next session of the Ontario Parliament for a charter for an electric railway to run between Lac Seul and the Mikado mine, and to develop and transmit electric power. The line will pass through Kelwatin, Norman and Rat Portage, and will be known as the Lac Seul & Mikado Electric Ry.

TORONTO, ONT.—Local papers state that an agreement has been reached between City Engineer Rust and Manager Keating, of the Toronto St. Ry. Co., in the matter of the construction of a loop line on Lake St.

LIGHT, HEAT AND POWER PLANTS

PITTSFIELD, ME.—The Sebasticook Power Co., capitalized at $50,000, has applied for a charter. It proposes to develop the water power 4½ miles below this village, and it is stated that the work of obtaining materials will be at once begun. Allen Hacket is president.

BRATTLEBORO, VT.—The Connecticut River Power Co. has been granted leave by the legislature to erect a dam 20 ft. high across the Connecticut River at Brattleboro.

CHELSEA, MASS.—A hearing has been given by the state gas and electric light commission on the petition of the Chelsea Gas Light Co. for authority to issue $200,000 of additional bonds. There was no opposition.

CONWAY, MASS.—The Conway Electric Street Railway Co. has petitioned the legislature for authority to purchase property rights, etc., of the Conway Electric Light & Power Co. John B. Packard is a director of the railway company.

HUNTINGTON, MASS.—An option on the water-power privileges at Stowells flat has been sold to Representative H. E. Stanton. It is rumored that the transfer has been made in view of possible trolley developments.

NEWBURYPORT, MASS.—The Newburyport Gas & Electric Light Co. has petitioned for authority to issue $150,000 of additional stock.

PROVIDENCE, R. I.—It is reported that the consolidation of the Providence Gas and the Narragansett Electric Light Cos. by the Rhode Island Co. is now under consideration. The latter company, it is said, is controlled by the Widener-Elkins syndicate, of Philadelphia.

PROVIDENCE, R. I.—Negotiations have been under way by the United Gas Improvement Co., of Philadelphia, for the leasing of the Narragansett Electric Lighting Co., of this city.

BATAVIA, N. Y.—The managers of the State School for the Blind at this place have asked for an appropriation of $30,500, which they propose to expend for the erection of a new power, heat and lighting plant.

BINGHAMTON, N. Y.—County Supervisor M. L. Jones writes us that the matter of a heating and lighting plant in Court House Square is in the hands of a committee, who will very likely report favorably to its construction. The plant proposed is to be operated by steam, and is to have a capacity of 800 16-c. p. lights. The estimated cost is $12,000. A. W. T. Back is County Custodian.

BRISTOL, PA.—The Bristol Electric Light & Power Co. has been purchased by a syndicate of Trenton capitalists, at the head of which is A. R. Kuser, who is interested in the South Jersey Gas & Electric Co.

CHAMBERSBURG, PA.—A local report states that the five arc-light machines at the municipal plant and the 148 arc lamps by which the town is lighted are worn out, and that it will be necessary to expend between $6,000 and $7,000 to replace them.

CONNELLSVILLE, PA.—A local report states that the oil and power house of the Pittsburg Coal Co., near Belle Vernon, was recently destroyed by fire, causing a loss of $5,000.

DENVER, PA.—W. D. Fink writes us that a franchise for the electric lighting plant has not as yet been granted, but that it will not be very long before one is obtained. The proposed plant is to be operated by steam and is to have a capacity of 15 arc and 1,000 incandescent lights; the estimated cost is $5,000.

PORT DEPOSIT, MD.—The capacity of the lighting plant of the Port Deposit Electric Co. is to be increased by 300 lights. New dynamos, boilers, etc., are to be put in at a cost, it is said, of at least $5,000.

WASHINGTON, D. C.—An electric light plant franchise here has been granted to S. C. Bragaw.

NORFOLK, VA.—The following bids were received Dec. 4 by Maj. Jas. B. Quinn, U. S. Engrs., for an electric plant at Fort Monroe; (1) being for generator, (2) for engine, (3) for switchboard, (4) for boiler, (5) for chloride accumulator elements: McCay Engineering Co., Baltimore, Md., (1) Ridgeway, $760, Sprague, $910, Gen. Elec., $1,000; (2) $705; (3) $680; (4) $1,950; (5) Electric Storage, $3,490, Gould, $2,990. N. Y. Safety Steam Power Co., New York, N. Y., (2) $811; (4) $1,724. The Electric Storage Battery Co., New York, N. Y., (5) $3,545. F. A. La Roche Co., New York, N. Y., (3) $600. Western Electric Co., New York, N. Y., (3) $570; (5) $3,250. National Electric Supply Co., Washington, D. C., (1) $810; (2) $1,000; (3) $720; (4) $1,340; (5) $3,250. N. J. Foundry & Machine Co., New York, N. Y., (1) $1,530; (2) $2,160; (3) $1,100; (4) $1,900; (5) $3,450.

RICHMOND, VA.—A resolution has been before the council to consider the matter of constructing a municipal lighting plant.

RICHMOND, VA.—E. W. Trafford, Mgr. Light Dept., Virginia Passenger & Power Co., writes us that the contract for replacing 700 open arc street lights with alternating series enclosed arcs installation is to be completed in 60 days.

ROANOKE, VA.—The matter of increasing the water power of the Roanoke Navigation & Water Power Co., Maj. J. W. Wilson, Pres., has been under consideration, and surveys with that end in view are said to have been made.

WINSTON-SALEM, N. C.—There is a movement, says a local report, looking to the development of the water power at Yadkin River Shoals. Surveys have been made and options taken.

CHERAW, S. C.—The question of electric lights for this place is being considered. W. Allen Benton is Mayor.

BARNESVILLE, GA.—This city has voted to issue $10,000 of bonds for various public improvements, among which is included the electric light and water-works plants.

SAVANNAH, GA.—A contract has been entered into with the Savannah Electric Co. for lighting the streets. The price for arc lights is $72 per year, and for incandescent the 50-c. p. cost $27.50 and the 100-c. p. cost $47. About 100 new incandescent lights are to be added.

SAVANNAH, GA.—It is rumored here that the Mutual Gas Light Co. is to extend its plant.

BROOKSVILLE, FLA.—The Standard Pole & Tie Co., 44 Broad St., New York, informs us that they have just received the franchise for an electric light plant in this city, and have not as yet made any further progress.

ATTALLA, ALA.—This city will, it is said, establish an electric light plant.

MONTGOMERY, ALA.—The Montgomery Light & Power Co. and the Tallassee Water Power Co. have consolidated, the new name being the Montgomery Light & Power Co. The combined output of the two plants can be 8,000 HP.

TUSCUMBIA, ALA.—It is reported that water-works and an electric light plant are to be soon installed in this city.

JACKSON, MISS.—Thomas Brown is said to be organizing a company for the establishment of an electric light plant in this city.

TRENTON, TENN.—The city contemplates the purchase and probable enlargement of the local electric light plant.

DANVILLE, KY.—Electric lights are advocated by the council.

CINCINNATI, O.—Bids are asked until Dec. 27 for one 300-c. p. dynamo, and removal of present dynamo at main hospital to branch hospital, switchboard, electric light wiring and fixtures, storage battery and various other work. John F. Fehrenbatch, Supt., Cincinnati main hospital.

COLUMBIANA, O.—Negotiations have been in progress, it is said, between the O. K. Oil & Gas Co. and the Youngstown & Southwestern Railroad looking to the erection of a power house at the Zion Valley gas well.

PORTSMOUTH, O.—The Portsmouth Street Railway & Electric Light Co. is said to be considering the erection of a new power house. It is hoped that work on it may be begun early next spring.

TOLEDO, O.—The Central Heating & Lighting Co. has had an ordinance before the council asking for a lighting franchise. The company offers to bid to do the street

YOUNGSTOWN, O.—A local report says the Youngstown & Southern Railroad Co. has purchased two acres near Teegarden on which to locate its power house.

MUNCIE, IND.—At a meeting to be held Jan. 13, a special committee, of which W. W. Orr is a member, will report regarding the adoption of the meter system by the Economy Gas Co.

CHICAGO, ILL.—Stockholders in the Westinghouse Electric & Manufacturing Co. are said to be back of a syndicate which proposes to develop 10,000 HP. on the Kankakee River, in Will county, near Wilmington. This power development was first proposed by the Rev. Mr. Stratton, a Baptist minister of California, who is now organizing a company to develop power at Pocatello, Idaho.

ELGIN, ILL.—The city lighting department is to ask for $41,005 for expenses for the coming year, an increase of about $15,000. Of this sum $6,000 is desired for a new 100-HP. boiler and a new alternating generator. Another $6,000 is for the placing of some of the wires underground.

KEWANEE, ILL.—Xenophon Caverno, representing the Light & Power Co., has asked for a franchise for laying mains for a central heating plant.

QUINCY, ILL.—It is reported that the Quincy Gas & Electric Co. intends to expend $40,000 or $50,000 in the improvement of its electric plant.

STERLING, ILL.—The Sterling Gas & Electric Light Co., according to reports, contemplate the extensive improvement and enlargement of its electric plant on Mill St.

BARABOO, WIS.—The Baraboo Lighting Co. has been incorporated with a capital stock of $100,000 by Beebe H. Stony et al.

MILWAUKEE, WIS.—There is considerable agitation in this city for a municipal lighting plant, the municipal lighting plan submitted by Alderman Meisenheimer having passed the council. Mayor Rose has suggested a bond issue to obtain funds for erecting a plant.

PORTAGE, WIS.—C. E. Corning writes us that the city contemplates the purchase of the electric plant of J. W. York & Co., and has had it appraised by Christian Westerfield, Elgin, Ill., for that purpose. He determined the value of the plant at $10,316. There is also a possibility that the city may put in a new plant and use the pumping engine as a source of power. The estimated cost of a new plant is $6,000.

MARSHALLTOWN, IA.—L. B. Jones, Mayor, writes us that the matter of a gas and electric light plant was referred to the water-works and electric light committee, who were to report at the council meeting Dec. 8.

RENVILLE, MINN.—A committee, of which W. O'Connor is a member, has been considering the matter of installing a $6,000 electric plant in this place.

WINONA, MINN.—Bids are asked until Jan. 5 for the construction of an electric light plant in this city, as is fully described in our advertising columns. G. P. Coleman, Cy. Engr.; Paul Kemp, Cy. Recdr.

DOUGLAS, WYO.—The Douglas Electric Light Co. has organized with John T. Williams, Pres. It is expected that the plant will be in operation in 90 days.

BILLINGS, MONT.—Reports state that the local water and light company, through H. N. Rowley, Supt., has offered to sell its plant to the city.

KALISPELL, MONT.—A report from here states that the Big Fork Electric Power & Light Co. will, within the next few months, install additional machinery in the power house at Big Fork that will more than double the present capacity of the plant.

MISSOULA, MONT.—S. H. McLeod, representing the Missoula Light & Power Co. has asked the council to extend the present franchise of the company 25 years. It is said that the reason for asking this extension is that the company contemplates the construction of a 16-ft. dam across the Missouri River at Hell Gate canyon and the proposed development of power at that point.

ST. JOSEPH, MO.—A local press report quotes J. H. Van Brunt, Gen. Mgr., St. Joseph Railway, Light, Heat & Power Co., as saying that the present power plant of the company is inadequate to handle the business as he would like to have it handled, and it is the intention of the company to enlarge it materially.

ST. LOUIS, MO.—The lowest bids for the construction of electric lighting plants for the city hall, insane asylum and poor house, and for electric elevators for the new city hall have been opened by the public improvement board as follows: Engine, for city hall, Chase Engine & Mfg. Co., $13,453; dynamos, Westinghouse Electric Co., $12,750; conduits, Abbott-Gamble Construction Co., $4,900; engines, insane asylum, Brownell & Co., $3,330.40; dynamos, Westinghouse Co., $5,800; pole lines, Acme Electric Supply Co., $1,263.71; three elevators, city hall, Otis Elevator Co., $11,716.

LAKE VILLAGE, ARK.—A 25-year exclusive franchise for electric light purposes has been granted to Frank Strong and others.

MAGNOLIA, ARK.—The Magnolia Light Co. has been incorporated with a capital of $15,000; it is said that active work will be begun on their plant in January.

SEARCY, ARK.—The date for receiving bids for putting in electric light plant and water-works in this city has been changed from Dec. 26 to Dec. 30; advertised in Engineering News Dec. 4. Emmet Snipes, Secy.

WALNUT RIDGE, ARK.—S. C. Dowell writes us that bids will probably be received about March 1 for the proposed electric plant to be located at Walnut Ridge. The estimated cost of the plant is $50,000 to $75,000, and it is to be capable of furnishing 2,400 16 to 32-c. p. lights. It is to be operated in 18 months by steam. At present the company, the name of which will probably be the Walnut Ridge & Noxie Light, Power & Transit Co., is being organized. The company proposes to furnish lights and water to Noxie and Walnut Ridge, and also expects to lay two miles of electric railway.

RATON, N. MEX.—The Raton Electric Light & Power Co. has increased its capital stock from $20,000 to $40,000.

TULSA, IND. TER.—Robt. T. Epperson, a local capitalist, has applied to the city for a franchise for an electric light and power plant.

BREMERTON, WASH.—Reports state that G. A. King has prepared plans and a draft of the steam system to be used in operating the electric light plant and the P. O. L. & T. Co.'s mill, and will superintend the work of installing the system.

SPOKANE, WASH.—The Spokane Falls Gaslight Co. is said to be planning extensive improvements to its plant.

SUMPTER, ORE.—It is stated here that an electric power plant will be installed at the Columbia mine. The plant will generate 300 HP., and will be located on Fruit Creek, below the mill.

ORANGE, CAL.—The city trustees are to be requested to call a special election to vote on bond issuance for electric lights and water-works.

POMONA, CAL.—The sum of $40,000 is one of the various items in the proposed bond issue, for which the board of trustees have been petitioned to call a special election.

SAN LUIS OBISPO, CAL.—E. S. Hoyt, Mgr., San Luis Gas & El. Co., writes that they expect to move their entire plant soon and combine with their gas plant in one building. It is proposed to increase and improve both plants at a cost of $60,000. The plant at San Luis Obispo is operated by steam, generated with oil as fuel.

BRIDGES.

WOONSOCKET, R. I.—Mayor Greene has signed an ordinance appropriating $2,500 for widening the stone arch bridge over Peters River at Elm St.

BUFFALO, N. Y.—The following bids were received Dec. 12 for constructing superstructure of bridge over Cazenovia Creek at South Park Ave.: McKeown & Johnson, 3147 Main St., Buffalo, $1,444; Henry P. Burgard, 560 Madden Ave., Buffalo, $1,675.

HORNELLSVILLE, N. Y.—The town is to issue $6,200 for repairing bridges and highways destroyed by the floods of the past year. The town of Pulteney will also issue $6,000 for the same purpose.

NEW YORK, N. Y.—Bids are asked until Dec. 22 for rebuilding Bank Rock bridge in Central Park. Wm. R. Wilcox, Park Comr.

NEW YORK, N. Y.—The commission of experts appointed to pass upon the Blackwell's Island bridge plans have recommended that a bridge 91 ft. wide be provided. This is 29 ft. narrower than the first designed structure

Information concerning contracts to be let or of supplies to be purchased, and corrections of errors and omissions in published items, are invited.

and 11 ft. wider than Commissioner Lindenthal's amended double-deck plan. The commission also recommended that two sidewalks, each not less than 11 ft. wide, be placed on the upper deck along with the two lines of elevated railway. Four trolley lines and a roadway are planned for the lower deck.

ALLEGHENY, PA.—The committee on corporations has favorably recommended an ordinance granting a franchise to the Western Bridge Co. The proposed bridge is to extend from Edson St., Allegheny, to McKee's Rocks.

FRANKLIN, PA.—Reports state that the contract for constructing the Allegheny River bridge at Scrub Grass has been let to the Penn Bridge Co., Beaver Falls, Pa., for $79,900.

LYCOMING, PA.—The viewers have made a report to the Lycoming county commissioners for a new steel, one-span, 50-ft. bridge in this township.

MONTGOMERY, PA.—The grand jury has approved a report for the construction by the Lycoming county commissioners of a new steel, one-span, 16 × 41-ft. bridge over Black Hole Creek, in this township.

MUNCY, PA.—The Lycoming county commissioners are soon to bring before the grand jury the matter of erecting a new steel, one-span, 16 × 42-ft. bridge over Wolf Run, in this township.

PHILADELPHIA, PA.—Plans, it is said, have been completed for the proposed bridge which the Philadelphia Rapid Transit Co. contemplates erecting south of the present Market St. structure.

PITTSBURG, PA.—Emil Swensson, C. E., has been retained by the government and is working on plans for the proposed elevation of bridges on the Allegany River.

TOWANDA, PA.—The Lycoming county commissioners have approved a report for a new bridge, to be constructed between Williamsport and Duboistown, over the Susquehanna River; exceptions to the report, however, have been filed. The bridge proposed is to be built of steel, of seven spans, and 1,400 ft. long; the estimated cost is $90,000.

BALTIMORE, MD.—It is reported that B. & O. R. R. and P. R. R. officials are considering the construction of a joint bridge over the Susquehanna River, at Havre de Grace. Plans for the new structure are said to include a footway for pedestrians and also a wagonway. The river is nearly a mile wide at that point.

BALTIMORE, MD.—A public hearing was to be held Dec. 18 on the plans of the Western Maryland Tidewater R. R. Co. for the construction of a bridge over Middle Branch, Patapsco River.

WASHINGTON, D. C.—A bill has been introduced in the Senate to appropriate $100,000 for the reconstruction of the Aqueduct bridge at or near the present line of crossing the Potomac River.

JACKSONVILLE, FLA.—Plans and specifications for the proposed new Bridge St. viaduct have arrived in the city and if they meet with the approval of the street railway company and the city, bids for the work will be called.

NEW ORLEANS, LA.—City Engineer Hardee is said to be urging the construction of a modern new bridge at Villere St. It has been estimated that the present structure can be repaired for $1,100, new superstructure would cost about $3,000, and a new bridge could be put in complete for $6,500.

BLOOMFIELD, IND.—Bids are asked by the county commissioners until Jan. 6 for constructing steel superstructure of a 100-ft. bridge in Richland township, and for the substructure and steel superstructure of a 40-ft. bridge in Taylor township. Harvey L. Doney, Co. Audr.

HUNTINGTON, IND.—Herman Taylor, Co. Surv., writes us that bids will be received Dec. 30 for a truss bridge on stone or concrete foundation, to be located at Warren Andrews, near Huntington. The bridge is to be 20 ft. wide.

TERRE HAUTE, IND.—The contract for constructing the Hickory Grove Island bridge has been let to Fred. C. Merridith for $1,100.

WALKER, MICH.—The matter of constructing a new county bridge over the River at North Park is to be voted on at the coming spring election. P. O. Grand Rapids.

CHICAGO, ILL.—A local press report states that the Chicago City Railway Co. has offered to replace the old Archer Ave. bridge with a new structure of the bascule type, on condition that the cost be taken out of the compensation demanded by the city for a renewal of the company's trunk line franchises.

LA SALLE, ILL.—The Earl township commissioners are urging the need of a bridge across Big Indian Creek at Earlville; estimated cost $2,000.

MOLINE, ILL.—Efforts are being made, it is said, to interest capital in the construction of a high bridge from Moline to Gilbertown, the bridge to be erected from the Illinois shore near 25th St.

ROCK ISLAND, ILL.—A committee of the Rock Island Club, of which E. H. Guyer is a member, has reported that the site at Barstow is the most advantageous for the erection of the proposed Rock Island bridge.

MAUSTON, WIS.—Reports state that a bridge is to be constructed over Lemonweir River, at a cost of $5,000. R. J. Joslyn is Cy. Clk.

MILWAUKEE, WIS.—An ordinance has been before the council for appointing a committee, of which Mayor Rose should be a member, to confer with the Illinois Steel Co. regarding the building of a bridge to Jones Island.

OSHKOSH, WIS.—The public works board has been engaged on specifications for the proposed new Sawyer Creek bridge, and it is expected that bids will be called soon so that work may be commenced in three or four weeks.

MONTEZUMA, IA.—Reports state that the county auditor will receive bids until Jan. 5 for constructing county bridges during the year 1903.

ST. PAUL, MINN.—The aldermanic committee on streets has cut the fund in the budget for the completion of the Third St. bridge from $35,000 to $7,500, which is the estimated cost of a wooden structure.

WASHBURN, MINN.—The contract for filling in the Sioux River bridge, six miles north of here, has been let to O. Flanders for $1,175.

OLIVET, S. DAK.—The county commissioners will receive bids until Jan. 7 for constructing two steel bridges, one to be of one span, 40 ft. long, 16 ft. wide, and the other to also be of one span, 80 ft. long and 16-ft. roadway. D. D. Wipf, Co. Audr.

CARTHAGE, MO.—The county court has made an appropriation of $1,750 for building an additional span to the Terry Ford bridge. The court also approved the contract of J. H. Sparks for the construction of steel bridges, one over Turkey Creek, and one over Center Creek. The appropriation for this work being $7,900.

CHARLESTON, MO.—Bids are asked until Dec. 31 for constructing a bridge near Anniston, and also for constructing a bridge across Fish Lake Ditch on the Charleston and Birds Point Road. C. S. Reynolds, Road and Bridge Comr.

HONDO, TEX.—Reports state that plans for a new bridge over the Medina at Castroville, made by S. A. Oliver, C. E., Houston, Tex., have been adopted by the commissioners' court.

WHITE EAGLE, OKLA. TER.—Bids are asked for constructing bridge over Red Rock Creek at the Otoe School and Agency, bridge to be 144 ft. long, 64 ft. steel main spans on tubes, 80 ft. approaches on white oak piling. John Jensen, Indian Agt.

COLORADO SPRINGS, COLO.—The Sante Fe R. R., according to reports, has offered to build a 60-ft. wide steel bridge at the Costilla St. undercrossing.

TACOMA, WASH.—Norton L. Taylor, Cy. Engr., writes us that bids will be received Jan. 12 for constructing a 350-ft. bridge across a gulch in the city. The bridge is to be of plate girders or truss on a concrete foundation, and is to be used for supporting 18-in. sewer and 16-in. water mains, the estimated cost is about $4,000. As to the drawbridge over the Puyallup River, bids are to be called for this about Jan. 15. This bridge is to have a total span of 240 ft.

PASADENA, CAL.—Walter Raymond, of the Hotel Raymond, is urging the construction of a new bridge at Raymond Hill.

SACRAMENTO, CAL.—J. C. Boyd, Co. Surv., writes us that bids will be received for the superstructure of the Walnut Grove bridge in January. It is to be a drawbridge, 209 ft. long, on a Cushing pier foundation. The estimated cost is $20,000.

SAN JOSE, CAL.—The following bids were received by the county supervisors for constructing a bridge across Llagas Creek: John W. Williams, $1,850; John McReynolds, $2,000; San Francisco Bridge Co., $1,845; all bids were rejected on account of being too high, the estimated cost being $1,400.

WEISER, IDAHO.—A soliciting committee, of which E. M. Barton is a member, has started to raise $10,000 toward the construction of a bridge over the Snake River at this place.

FREDERICTON, N. B.—Plans for the steel superstructure of the Oromocto bridge are said to be under preparation by the Provincial public works department.

BUILDINGS.

BOSTON, MASS.—A 5-story warehouse is to be built on the Boston Wharf Co.'s land on Congress and Stillings Sts. It will measure 121 × 83 ft.

BROCKTON, MASS.—The public property committee has approved the plans prepared by Chas. A. Brigham, Arch., 8 Exchange Place, Boston, for the proposed high school building, to cost about $180,000.

WORCESTER, MASS.—The Chase Building, at 44 Front St., was damaged by fire on Dec. 11 to the extent of $225,000. Ransom C. Taylor is the owner.

FORT GREBLE, R. I.—Bids are asked until Jan. 7 for the construction of the hot water heating system in a 12-bed brick hospital at Fore Greble. Capt. Thos. H. Slavens, Q. M., 209 Thames St., Newport.

PROVIDENCE, R. I.—Thornton & Thornton, Archs., were the successful architects in the competition of plans for the state sanitarium for consumptives. The structures will be built by Lewis J. Pierce, local contractor, including the heating and plumbing, for $55,150.

HARTFORD, CONN.—The commission on the proposed armory and arsenal has decided to commission Davis & Brooles, local architects, to discuss the matter of plans for the new structure.

BUFFALO, N. Y.—The trustees of the City and County Hall will ask for an appropriation of $70,000 to provide for the repairs to the building. Among the improvements the installation of electricity to take the place of gas now in use is considered.

GLOVERSVILLE, N. Y.—The new post office building will be on the site of the old Alvord house. The plans for the new structure are to be prepared at once and bids will likely soon be called for.

NEW YORK, N. Y.—Bids are wanted by the Department of Education, Park Ave. and 59th St., until Dec. 24 for the general construction of school 144, Howard St., Brooklyn, and for erecting partitions in the fourth story assembly room of school 14, in East 27th St., Manhattan; and until Dec. 29 for the construction of public school 145, at Central Ave. and Noll St., Brooklyn; the general construction of public school 106, on Mott and Elizabeth Sts., and for installing the heating and ventilating apparatus in the addition to and alterations in school 51, Johnson St., between Stuart and Jamaica Aves., Borough of Queens. C. B. J. Snyder, Supt. School Bldgs.——J. Fliegman will erect a 5-story brick hall and lodge building at 6-10 East 117th St., to be 70 × 101 ft., and cost $70,000.——Of the bids received by Dr. John W. Brannan, Pres. Bd. Trustees of the Charity Hospitals, on Dec. 11, the lowest was submitted by Joseph E. Butterworth at $47,657, which was accepted. The award will be contested by Williams & Gerstle, who were the lowest bidders in the first opening a few weeks ago. Their bid was for $48,000, and was considered too high and rejected.

NEW YORK, N. Y.—Plans have been filed by Clinton & Russell, Archs., 32 Nassau St., for a 6-story brick office building, 30 × 70 ft., for the estate of David Bishop, Lenox, Mass., at 2 Liberty St., to cost $30,000. The general contract has been let to Richard Deeves & Sons, Mutual Reserve Bldg., Broadway and Duane St.; plans filed by F. Baylies, Arch., 33 Bible House, for two 6-story brick flats, 37 × 88 ft., for D. Henman, 23 West 115th St., at 1721 West 15th St., to cost $68,000. The plans have been finished, but it is not decided when the contracts will be let; plans have been filed by J. Hauser, Arch., 1961 Seventh Ave., for a 6-story brick hotel, 40 × 92 ft., at 157-59 West 47th St., for J. A. Picken, 548 West 165th St. The building will be fireproof and the architect will be ready for bids in a few days; plans filed by Horenburg & Straub, Archs., 122 Bowery, for a 6-story brick tenement, 46 × 83 ft., at 368-70 East Fourth St., for L. Michelson, 297 East Seventh St., to cost $40,000. The owner will be ready to let separate contracts in a few days; plans filed by R. L. Falconer, Arch., 32 Broadway, for a 3-story brick stable, 20 × 99 ft., for Evans & Buscall, 1838 Madison Ave., at 69 East 80th St.; plans filed by T. Graham, Arch., 414 East 120th St., for a 4 and 5-story brick hall and lodge rooms, 70 × 101 ft., at 6-10 East 17th St., for J. F. Fliegman, 1460 Fifth Ave., to cost $70,000; by L. C. Maurer, Arch., 603 West 26th St., for a 6-story brick tenement, 50 × 75 × 75 ft., at 197-99 Allen St., to cost about $50,000, J. Wittner, 238 East 53d St., owner; plans filed by A. Zucker, Arch., 32 Waverley Place, for an 11-story brick lofts building, 22 × 100 ft., at 125 Fifth Ave., for H. Bergdorf, 190 Convert St., to cost $132,000; plans filed by F. C. Brown, Arch., 143 West 125th St., for a 10-story brick lofts building, 28 × 130 ft., for M. Zimmerman, 115 West 113th St., at 656 Broadway, to cost $75,000.

NIAGARA FALLS, N. Y.—It is reported that the Sisters of Charity of Buffalo may build a branch hospital in this city.

SYRACUSE, N. Y.—C. E. Smith, Pres. Onondaga Historical Society, informs us that nothing definite has been done towards erecting the new building for the society.——Plans are being prepared by Archimedes Russell, Arch., The Bastable, for the Onondaga county court house. The building will be fireproof, and will have elevators, steam heating and fan ventilating systems. It will cost about $750,000. Contracts will be awarded about Feb. 1, according to reports.

SCHENECTADY, N. Y.—At the meeting of the New York State Electrical Laboratory Commission on [illegible] plans were submitted and approved for the new state laboratory. The buildings and equipment will cost between $250,000 and $300,000. Four new buildings will be needed, each one to be about 40 × 60 ft., and the main building three stories high.

SING SING, N. Y.—The State Prisons Commission will ask the legislature to authorize an appropriation of $[illegible],000 for improving the cell building of Sing Sing [illegible] and making an extension thereto.

MONTCLAIR, N. J.—It is said that ex-Vice-President A. E. Stevenson has purchased the Doolittle property in North Mountain Ave. and will erect a residence for himself there this spring costing about $180,000.

JERSEY CITY, N. J.—It is reported that the [illegible] Cold Storage Co., of Jersey City, has filed plans for an 8-story brick building, 100 × 127 ft., at 12th and Provost Sts., to cost $75,000.

NEWARK, N. J.—The Central R. R. of New Jersey is to erect a new passenger station in this city on the site of the Broad St. terminus of the road. It will front 100 ft. on Broad St.

PRINCETON, N. J.—The Princeton University will soon select an architect to prepare plans for a new dormitory building, to be of stone and steel, fireproof, three stories high, and cost about $125,000.

CARBONDALE, PA.—A bill has been introduced in Congress by Congressman Wm. Connell for an appropriation of $100,000 for a public building here.

MYERSVILLE, PA.—Ed. H. Glidden, Arch., Atlantic Trust Bldg., Baltimore, will prepare plans for an apartment house here to be four stories, 70 × 90 ft. and to cost $50,000.

PHILADELPHIA, PA.—A contract has been let to Stacy, Reeves & Sons for a 5-story building, to be erected on the site of the old Central Hotel as an addition to the department store of Strawbridge & Clothier's. It will cost about $300,000. Work will begin immediately.——Ballinger & Perrot, Archs. (successors to Hales & Ballinger), 12th and Chestnut Sts., are about ready for bids for 12 stores and dwellings, three stories, 16 × 64 ft., of Pompeiian brick and trimmed with stone and galvanized iron, in the northeast section of this city. The new structures will have all modern improvements, including electric lighting and hot air heating systems.——Frank Miles Day & Bros., Archs., 925 Chestnut St., are taking bids for a gymnasium building at 33d and Spruce Sts. for the University of Pennsylvania. The building will be of brick and steel, fireproof in construction, four stories, 70 × 150 ft., and will cost $300,000.

PITTSBURG, PA.—John McSorley, it is reported, will erect a 4-story pressed brick apartment house, 50 × 136 ft., in the East End, costing about $65,000.——F. P. Booth will build a 3-story brick apartment house on Shady Ave., near Wilkins Ave., costing about $50,000. It will be 120 × 160 ft., and will follow the plans of Ellsworth Dean, Arch.——A movement has been started for raising $120,000 for the new building for the South Side branch of the Y. M. C. A.

SCRANTON, PA.—The plans prepared by E. H. Davis, Arch., for the new buildings for the almshouse at the Hillside House have been approved by the poor board. The buildings will be three in number, two of which will be of brick, two stories high. The cost will be about $150,000.——Gilbert H. Edson, Arch., Scranton, writes that plans are now being prepared for the new high school here, to be four stories, 85 × 135 ft., of fireproof construction, with brick walls and stone facing, and costing $100,000. It is expected to be ready to award contracts by Feb. 1, 1903. A separate plant will be provided for the heating, lighting and power.

WILKINSBURG, PA.—The board of directors of the United Presbyterian Church have decided upon Wilkinsburg as the site for the new memorial hospital. The building will be designed to contain 100 patients, and cost about $200,000.

YORK, PA.—Hamme & Leber, Archs., York, write that the contract will be let some time soon after the first of the new year for the new school house in this city. The buildings will be of brick, stone, slate, etc., construction, two stories high, 125 × 75 ft., and will cost $40,000. It will be warmed and ventilated by the Wills Warming and Ventilating Co., Philadelphia.

BALTIMORE, MD.—E. L. Kaufman & Co., Liberty and Fayette Sts., have purchased property adjoining their present building on Liberty St. and will erect a 6-story warehouse upon the site.——J. Schoenman & Co., 319 West Baltimore St., will erect an addition to their 5-story building on Baltimore St. It will be five stories, 24 × 77 ft. Plans are now being prepared.——Plans are reported to have been sent to J. J. Walsh & Son for bids on the new passenger station for the Pennsylvania R. R. in Baltimore. The building will be a 3-story brick structure, 22 × 96 ft.

WASHINGTON, D. C.—C. L. W. Eidlitz, Arch., 1123 Broadway, New York, has completed plans and will soon take bids for the erection of an office building at 718-20 12th St., N. W., for the Chesapeake & Potomac Telephone Co. The building will be of brick, stone and steel, fireproof in construction, eight stories high, 45 × 150 ft., and will cost $250,000.——Gleason & Humphrey, 1216 North Capitol St., have received a contract for a new school building at 12th and N Sts., N. E., to be of brick, stone and steel, fireproof, two stories, 82 × 82 ft., and to cost $41,000.——F. B. Pyle, Arch., 1003 F St., has taken bids and will soon award the contract for an addition to an apartment store at Seventh St., between E and F Sts. N. W., for Hecht & Co. It will a brick, stone and steel building, six stories high, 25 × 120 ft.——The Secretary of War has asked Congress to appropriate $375,000 for the erection of an army general hospital for the treatment of special cases. The estimate includes $140,000 for the purchase of a site.——Plans are being prepared under the supervision of J. Knox Taylor, Supervising Arch., for a new physical laboratory building, to be erected on the Pierce Mill road, west of Connecticut Ave. The structure will be four stories, and constructed of brick and stone. It will be for the U. S. Bureau of Standards.——Cope & Stewardson, Archs., 320 Walnut St., Philadelphia, have been awarded first prize in the competition for the new municipal building. The cost of this building, exclusive of the site, was placed by Congress at $950,000, but more money will be asked and $1,250,000 will probably be required.——The house committee on buildings and grounds have reported favorably a bill appropriating $7,000,000 for the construction of a building just north of the Congressional Library for the Supreme and Circuit Courts and the Department of Justice; also appropriating $2,000,000 for a new Department of Agriculture building.

CHARLOTTESVILLE, VA.—The site for the new federal building in this city has been decided on. The structure will cost about $100,000.

ATLANTA, GA.—Fire did damage in the business section of this city on Dec. 9 amounting to about $350,000. The principal losers are the Snook & Austin Furniture Co., the Norcross Bldg., the Jacobs Pharmacy Co. and the Hammack drug store.

LOUISVILLE, KY.—The finance committee of the school board has approved the plans for the building of two new schools to cost about $50,000 each.

Information concerning contracts to be let or of supplies to be purchased, and corrections of errors and omissions in published items, are invited.

JACKSON, MISS.—J. F. Barnes & Co., Jackson, have been awarded the contract for the construction of the new buildings at the University of Mississippi at their bid of $47,000.

LOUISVILLE, KY.—It is stated in local papers that the Conrad Windisch Realty Co. will erect a new building at Seventh and Vine Sts., now occupied by the Hexter Hotel, at a cost of $100,000.

CINCINNATI, O.—The designs for the building for the western pumping station of the new water-works have been completed by Gustav Drach, Arch., and delivered to Chief Engineer Bouscaren, who is preparing the plans and specifications. Bids for the construction of the building will be called as soon as that work is finished. The buildings will be located on Eastern Ave., and will be two stories high, and will cost something like $500,000. The engine house will be 353 × 65 ft., the boiler house 268 × 60 ft., and a tower and two tall smokestacks will be erected. All will be of stone construction.

CLEVELAND, O.—John G. Hall & Son, real estate dealers, 610 New England Bldg., are said to be promoting a plan for the erection of a family hotel here at a cost of $2,000,000. The structure planned is to be 304 × 208 ft., eight stories high, of brick and stone construction. C. H. Blackall, Boston, is the architect.——W.S. Judson will erect a new apartment house near Euclid Ave., accommodating eight families and costing about $200,000.——It was voted to erect a school building at Glenville on Dec. 5, costing about $50,000.

SPRINGFIELD, O.—The hospital board of Springfield has authorized Robt. C. Gotwald, Arch., to prepare specifications for the superstructure for the new hospital. These will contain everything excepting the heating plant and the elevator.

TOLEDO, O.—Franklin Hubbard, Business Mgr. Bd. of Education, writes that the plans for the addition to the east side Central high school are in the hands of Geo. S. Mills, Arch., City, and bids will probably be taken soon.

MARION, IND.—The county commissioners have recently appropriated $100,000 for the construction of a new jail, and plans are now being discussed.

KALAMAZOO, MICH.—Plans have been completed by E. C. Van Leyen, Arch., Detroit, for a new hospital building for the Kalamazoo Hospital Association. The building will be two stories high, 150 × 172 ft., constructed of brick and stone.

DETROIT, MICH.—Plans have been prepared by C. W. Kohler, Arch., for a flat building for Chas. Holtz at Grummond Ave and Hamilton Boulevard. The building will be of brick and stone construction.

CHICAGO, ILL.—J. Harley Bradley will erect a 5-story manufacturing block, 40 × 150 ft., at 53-55 North Desplaines St., to cost about $75,000.—The trustees of the Newberry Library have secured a permit to build an 8-story warehouse at 57-63 Wells St., at a cost of $100,000.——It is stated that the Chicago orchestra will have a new building of its own on Michigan Ave. The building will stand on a site 105 × 171 ft., and will cost about $750,000. Bryan Lathrop is Pres.——It is said that Sears, Roebuck & Co. will erect a warehouse on the West Side.

LINCOLN, ILL.—The board of supervisors have ordered the levying of $50,000 for the first of three years' assessments for the construction of the new court house.

LINCOLN, ILL.—The Logan county board of supervisors has appointed a committee to decide upon plans for a new $125,000 court house. X. F. Beidler is Co. Clk.

MILWAUKEE, WIS.—Julius Lester, Arch., has prepared plans for two flat buildings for John Hunholz at 14th St. and Grand Ave., to cost $40,000 each.——Plans have been completed by Gustave Leipold, Arch., for a 7-story flat building on Kane Place, and it is said that bids were opened on Dec. 15. Herman Nunnemacher is the owner.

CENTERVILLE, IA.—The proposition for the erection of a new $75,000 court house at this place was carried favorably at the recent election.

DES MOINES, IA.—H. S. Josselyn, Arch., Cedar Rapids, will complete the working plans for the new storage warehouse to be erected on East Grand Ave., just north of the capitol. It will be 44 × 100 ft., two stories high, and will match the color of the capitol building.——C. L. Percival will erect a 3-story brick building on East First St., and D. S. Chamberlain is having plans prepared by Proudfoot & Bird, Archs., for a 3-story building at Seventh and Locust Sts.

SIOUX CITY, IA.—The members of the Masonic fraternity of Sioux City are considering the proposition of erecting a 5-story building for the order in this city, costing about $60,000.

EMPORIA, KAN.—The following bids were received by the supervising architect, Washington, D. C., on Dec. 3, for the erection of government public library building at Emporia: Congress Construction Co., $39,923, time 16 months; J. W. Berry, Jewell City, Kan., $37,277, 16 months; J. S. Morse, Topeka, Kan., $34,973, 16 months; Latimer & Beurring, Kansas City, Mo., $34,407, 15 months.

HELENA, MONT.—Bids are asked until Jan. 14 for the installation of a conduit and electric wiring system for the U. S. public building at Helena. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

KANSAS CITY, MO.—E. A. Kranthoff has filed articles of incorporation for the Manufacturers' & Mercants' Building Association, which corporation will erect a club house at 10th and Wyandotte Sts. The capital stock is $40,000. J. J. Swofford is Pres.

ST. LOUIS, MO.—Bids are asked until Dec. 19 for the construction of the restaurants and colonnade of the Louisiana Purchase Exposition. Isaac S. Taylor, Dir. Wks., Administration Bldg., Lindell Boulevard.

WARREN, ARK.—W. L. Turner, of the building committee, informs us that the contract for the new court house for Bradley county will be let Jan. 3. The building will be two stories high, 75 × 80 ft., and will cost $50,000. It will be constructed of brick, stone, steel and marble. Frank W. Gibb, Arch., Little Rock, prepared the plans.

SAN ANTONIO, TEX.—Reports state that the International & Great Northern R. R. will erect a $50,000 depot in this city, and that plans are also being made for the depot in Palestine, Tex.

WACO, TEX.—The building committee of the Masonic Lodge of Texas has decided to erect a building costing $140,000 in this city.

GUTHRIE, OKLA.—J. H. Bennett, Arch., Guthrie, has completed plans for the new Southwestern Normal School at Weatherford, to cost about $50,000.

COLORADO SPRINGS, COLO.—Plans have been completed for the addition to the St. Francis hospital. The addition will be in the form of an L, three stories high, 160 × 50 ft., and will cost about $50,000.

PORT TOWNSEND, WASH.—Bids are wanted until Jan. 6 for the construction of buildings for the U. S. Army at Port Townsend. Capt. Geo. H. Penrose, Q. M.

SAN FRANCISCO, CAL.—Contracts have been let by Joseph Musto for the erection of a 7-story hotel on Taylor, near Post St., to cost about $150,000. The structure will be of brick and terra cotta, and will have a passenger elevator and a telephone system.

LOS ANGELES, CAL.—The contract for the new Chamber of Commerce building has been let to Murphy & McHennan. The structure will cost about $125,000.

MARYSVILLE, CAL.—Bids are asked until Dec. 20 for the rebuilding of the Yuba county jail. Gordon Bowman, Clk. Bd. Supervisors.

OAKLAND, CAL.—The council has selected the site for the new city hall. The land east of the old library building will be utilized.

PALO ALTO, CAL.—Rev. J. F. Jenness writes us that it will be eight months or more before it will be known when the funds for erecting the church as a memorial to the late Bishop William Taylor can be obtained.

WATER SUPPLY AND IRRIGATION.

FAIR HAVEN, VT.—This place has voted to issue $50,000 3½% bonds, about $30,000 of which will be used for works.

SPRINGFIELD, MASS.—The water commission is reported as about to engage an engineer to prepare plans for an increased water supply. N. D. Winter is on the commission.

WRENTHAM, MASS.—The question of works is reported as being considered.

BLACK RIVER, N. Y.—H. C. Dexter, Chn. Bd. Water Com., writes us that Eaton & Brownell, of Carthage, N. Y., have reported on the matter of works and a sewerage system for this place.

CANDOR, N. Y.—L. J. Richardson, of Owego, N. Y., writes us that nothing will be done at present regarding the proposed works for this place.

HORSEHEAD, N. Y.—Engineer Jones, of Elmira, N. Y., is reported to have completed plans for gravity works, the water supply to be secured from Jackson Creek. About 16 miles of water mains, a reservoir, 70 hydrants, etc., will be required.

NEW YORK, N. Y.—Bids are asked until Dec. 30 for furnishing and laying water mains in a number of streets in Brooklyn and Queens. R. G. Monroe, Comr. Dept. Water Supply.

ONEONTA, N. Y.—The Oneonta Water-Works Co. has secured a contract to furnish this place with a water supply for five years at $27.50 a year each for 98 hydrants.

SCHENECTADY, N. Y.—The water board proposes to install about 500 water meters. Address Superintendent Ingersoll.

SCHUYLERVILLE, N. Y.—This place will probably soon vote on the question of issuing $10,000 in bonds for completing the works. Address Village Engineer Geer.

SYRACUSE, N. Y.—The State Fair Board has asked for $160,000 for a new state building to include a new water plant to cost $12,000.

TROY, N. Y.—The Thos. H. Gillespie Co., Times Bldg., New York, has been awarded the contract at $359,360 for extending the works.

GLOUCESTER CITY, N. J.—The council is reported as arranging to improve the works.

EAST ORANGE, N. J.—The water committee is reported as making arrangements to begin the construction of the new works in the spring, as the city has refused to buy the works of the Orange Water Co. for $425,000. There will be 53 miles of mains, and the improvements will cost $300,000. Address City Engineer Reimer. J. D. Gedney is Chn. Water Com.

HOLLY SPRINGS, N. J.—Reports state that a receiver has been asked for the Holly Springs Water Co., of Swedesboro, N. J.

NEW HOPE, N. J.—The New Hope Water Co., it is stated, has been granted a franchise for works.

SOUTH ATLANTIC CITY, N. J.—The contract for building works is reported to have been let to Henry A. Miller, of Wilmington, Del., at about $30,000.

TRENTON, N. J.—Dr. A. S. Fell, health officer, is urging immediate construction of a filtration plant at the reservoir. F. B. Lee is Chn. Com.

McKEESPORT, PA.—The water commissioners are reported to have proposed additional wells for an increased water supply.

PARKSIDE, PA.—The Parkside Water Supply Co. has been incorporated with a capital of $5,000.

PITTSBURG, PA.—The residents of the 22d Ward have asked for extensions to the water mains to cost $200,000. The council has appropriated $10,000 for hydrants. Councilman Stevenson, Chn. Finance Com.

BALTIMORE, MD.—Bids are asked by the water board until Dec. 31 for furnishing various supplies during the year to cost $100,000.

BALTIMORE, MD.—Alfred M. Quick, Water Engr., writes us as follows regarding the item which appeared in last week's issue, and which he says is incorrect: The Water Department has a special appropriation for next year of $645,000 out of a loan of $1,000,000. This special appropriation is for three specific purposes, (1) for the construction of a new reservoir, (2) for the purchase of the water mains of a private company having the exclusive right to supply water to certain streets in the southwestern section of the city, and the extension of city service to that section, and (3) for extension of city mains in another section of the city which now has no water, and for the erection of a stand-pipe there. The appropriation for the reservoir is $350,000, of which as much as may be required, not to exceed $200,000, is for the purchase of the necessary land, which purchase is to be made, not by the council, but by a special commission, consisting of the Mayor, City Comptroller and Water Engineer. The balance, not expended for land, will be used to pay for the construction work done next year. It is expected that it will take about three years to complete the reservoir, and that its cost, exclusive of the cost of the site, will be $400,000. This will be done by contract, but it will be several months before the city will be prepared to invite bids. The only other contract work in connection with the new improvements to be taken up next year will be the erection of a steel stand-pipe with a masonry tower and the cast-iron water pipe necessary for the extensions of mains. This pipe will be bought under the general specifications for cast-iron pipe, and for which bids are now being invited. The award of the contract for pipe will be made on Dec. 31.

BRISTOL, VA.—P. C. March, Cy. Clk., writes us that the city has begun work on its new reservoir and pipe lines to cost $30,000. Pop., 7,000. D. J. Howell, Engr., Washington, D. C.

BETHANY, W. VA.—We are informed that the city wants a 60-HP. high-speed engine, 600-light dynamo, an 80-HP. boiler and a pump that will force water to height of 300 ft. Address T. E. Cramblet.

DURBAN, W. VA.—The Pocohontas Water, Light & Power Co. has been incorporated with a capital of $25,000 by E. M. Arbogast, and W. A. Bratton, of Marlinton, W. Va., and G. C. Lowelton.

WINSTON-SALEM, N. C.—Prof. J. Ludwig has been engaged to prepare a report on the proposed new works, the water supply to be secured from wells within 8 miles of the city.

GENEVA, ALA.—The question of works is being considered.

MONROE, LA.—The court has ordered the sale of the works and plant of the Monroe Water-Works & Light Co. at auction about Dec. 20, according to reports. It is understood that the city will bid in the property.

NEW ORLEANS, LA.—Bids are asked until Jan. 10 for a temporary water system and electric plant at the naval station. M. T. Endicott, Ch. Bureau Yards and Docks, Washington, D. C.

CENTERVILLE, MISS.—Bids are asked until Jan 7 for works, as stated in our advertising columns. C. H. Jenks, Engr., Fayette, Miss.; A. H. Jones may be addressed.

HUNTINGDON, TENN.—The council is reported as considering a proposition from Mr. Porter, of Nashville, Tenn., in regard to his leasing the city works and electric plant, and making improvements thereto.

KNOXVILLE, TENN.—The aldermen propose to issue bonds for making improvements to the works, sewers, etc. Address Mayor McTeer and Maj. H. M. Aiken.

LA FOLLETTE, TENN.—Reports state that the council is considering a proposition for works, to cost about $250,000.

LAWRENCEBURG, TENN.—This place will soon vote on the question of works and an electric plant, plans for which are being prepared.

MORGANTOWN, KY.—The city will soon sell its bonds for the proposed works, according to reports.

PARIS, KY.—N. Mitchell, Supt. Paris Water Co., writes us that it is proposed to build a filter plant.

TAYLORVILLE, KY.—The question of works is being considered, according to reports.

NEWARK, O.—C. C. Ferry, Mayor, writes us that the contract for new works will probably not be let before next year, as the city has a contract with a private company until 1904. A preliminary survey has been made and an ordinance for bonds passed. Estimated cost $300,000. There will be a reservoir and 22 miles of mains.

ANDERSON, IND.—F. A. Sharp, Cy. Clk., writes us that contracts have been let for two test wells, pursuant to drilling a system of 30 pure water wells. Pop., 25,000.

NORMAL, IND.—The City Commercial Club has petitioned the council to build works, sewers and an electric plant, to be completed by Jan. 1, 1904. Address, F. E. Hill and W. A. Hoath.

SHERIDAN, IND.—The town board is considering a proposition from a Philadelphia company which offers to build works.

ALTON, ILL.—The city engineer is reported as making estimates for extending the works.

CHICAGO, ILL.—City Engineer Ericson, it is stated, will ask for $200,000 for improving the pumping stations, as the council does not favor his recommendation for more water meters.

CHICAGO, ILL.—Frank Murphy, Contract Clk., 222 City Hall, writes us that the advertisement asking for bids Dec. 11 for such hydrants, valves, etc., as may be required during the year was withdrawn, and new bids will be asked about March 10.

CLINTON, ILL.—Plans and specifications for the proposed works are being prepared, according to reports.

DU QUOIN, ILL.—The Illinois Central R. R. proposes to build at once a dam 600 ft. long and 25 ft. wide for storing water at Du Bois.

SPRINGFIELD, ILL.—The city will build a new dam next year. This year about 10 miles of mains were laid. Address Superintendent Valentine.

WAUSAU, WIS.—Prof. E. G. Smith, of Beloit, Wis., has recommended the construction of a filter plant to cost about $25,000.

CUMBERLAND, IA.—S. G. Hunter, of the Atlantic Iron Works, has been awarded the contract at $5,350 for works.

TABOR, IA.—S. C. Osborn, Mayor, writes us that the town needs water meters and fire hose at once. H. L. Wilson, Engr., Omaha, Neb.

LAKE WILSON, MINN.—The question of works is being considered, according to reports.

TWO HARBORS, MINN.—We are informed by the Recorder that bids will be asked in a few weeks for works, the water supply to be taken from Lake Superior. No pumps are needed, but a stand-pipe will be built. There will be wanted 162 ft. of 20-in. c. i. pipe and 675 ft. of spiral riveted 20-in. steel pipe. Estimated cost, $15,000. Pop., 4,500. Thos. F. McGilvray, Engr., Duluth, Minn. A report states that bids will be opened Dec. 20.

ST. PAUL, MINN.—The Snake River Water Co. has been incorporated with a capital of $50,000 by A. A. Erickson, of St. Paul, and C. L. Lewis, of Duluth.

WILMONT, MINN.—At an election Dec. 23 the issuance of $8,000 of bonds for water-works will be voted upon.

WELLINGTON, KAN.—Local papers state that the works should be improved at once.

NEWMAN GROVE, NEB.—This place has voted to issue bonds for works.

MONTROSE, S. DAK.—J. W. Platt, Pres. Council, writes us that work on the water plant will not begin before spring. The bonds have not yet been sold. Pop., 500.

WATERTOWN, S. DAK.—D. C. Thomas, Mayor, writes us that this place proposes to buy the works for $60,000.

BILLINGS, MONT.—H. W. Rowland, Res. Engr., and Secy. Billings Water Co., has submitted a proposition to sell the works to the city. The company's franchise expires in four years.

HAVRE, MONT.—Bids are asked until Dec. 20 for constructing water-works. G. T. Sanderson, Town Clk.

HELENA, MONT.—This city has voted to issue $614,000 of bonds to buy the works or to build a new plant. Mayor Edwards wants to bring water from Beaver and McClellan Creeks. Chas. W. Helmick, Engr., writes us that no further action has yet been taken. Pop., 11,000.

DILLON, MONT.—Engineer Kelsey has completed plans for works to cost about $60,000.

JONESBORO, ARK.—This place has asked for authority to buy the works and electric plant.

SEARCY, ARK.—Bids are asked until Dec. 30 for constructing works and an electric plant, as stated in our advertising columns of Dec. 4. Postponement from Dec. 26. Owen Ford, Engr., Security Bldg., St. Louis, Mo.; Emmett Snipes, Secy.

GRANGER, TEX.—Reports state that bids for pipe, hydrants, gasoline engines, tanks, etc., are wanted at once by the Granger Water Co.

HOUSTON, TEX.—T. H. Scanlan, Pres. Houston Water Co., has submitted a proposition to sell its works to the city. Address Mayor Holt and City Engineer Dormant.

SCHULENBURG, TEX.—The Guenther Foundry Co., of San Antonio, Tex., has been awarded the contract for building works.

HOUSTON, TEX.—We are informed that the Brazos Canal Co., J. S. Daugherty, Pres., Rice Hotel Annex, Houston, wants to enlarge its pumping plant. There will be needed two 500-HP. engines, with boilers, piping, pumps, etc. The company will build ten miles of canal and plans to prepare for rice about 5,000 acres of land.

Information concerning contracts to be let or of supplies to be purchased, and corrections of errors and omissions in published items, are invited.

it is desired to extend this to the cultivation of about 10,000 acres of land, the harrowing, thrashing, etc., to be done by electricity. Information regarding the working of such a rice by electricity is desired.

EL RENO, OKLA. TER.—E. E. Blake, Pres. El Reno Water Co., writes us that the company is getting into shape to build new works. Local papers state that the city will vote in the spring on the question of building works.

LAWTON, OKLA. TER.—Governor Ferguson has declined to approve the contract recently made for building works here at a cost of $105,000.

GEARY, OKLA. TER.—J. M. Waterman, Cy. Clk., writes us that the C. L. Olds Construction Co., of Fort Wayne, Ind., is preparing plans for works, bonds for which have been sold. Pop., 2,650.

ADMORE, IND. TER.—Bids are asked until Jan. 6 for constructing works, as is fully described in our advertising columns. Chas. B. Davis, Engr., San Antonio, Tex.; R. W. Dick, Mayor.

DURANT, IND. TER.—This city will soon vote on the question of issuing $65,000 in bonds for works and $15,000 for a school house.

BOULDER, COLO.—The Consolidated Lamar-Boulder Reservoir & Ditch Co. has been incorporated with a capital of $40,000 by J. O. V. Wise and C. E. Day.

DENVER, COLO.—Plans for ditches have been completed by the Agricultural Ditch Co. and the Church Ditch Co. irrigated about 100,000 acres of land. A tunnel three miles long and reservoirs will be built to cost about $1,000,000. Henry Lee, of Denver, is interested.

SEATTLE, WASH.—The board of public works proposes to lay a new c. i. main in the West Queen Anne district at a cost of $53,000 and a wooden main in Stone St., to cost $10,500.

SEATTLE, WASH.—Plans for extending the water mains to Forts Warden, Flagler and Casey are completed by the water board.

WASHTUCNA, WASH.—This place proposes to build works, according to reports.

PORTLAND, ORE.—The question of works for Milwaukee, a suburb of this city, is being considered. F. H. Lechler is Chn. Water Com., Milwaukee, P. O., Portland.

CORONA, CAL.—The Temescal Water Co. proposes to build a new pumping station, etc.

GOLDEN, CAL.—This city will again vote Dec. 27 on the question of issuing $100,000 in bonds for the proposed works. The vote taken last summer was illegal.

LOS ANGELES, CAL.—Bids are asked until Dec. 24 for laying pipe lines, etc., for the Artesian Water Co. A. R. Rosenberg, Secy., Hardware Bldg., Santa Paula, Cal.

POMONA, CAL.—Bids are asked until Jan. 3 for furnishing the Del Monte Irrigation Co. one steel tank of 10,000 gallons capacity. W. A. Lewis, Secy.

SAN BERNARDINO, CAL.—Bids will be asked at once by the city trustees, according to reports, for a 21-in. steel pipe line, etc.

SAN DIEGO, CAL.—Bids are asked until Dec. 27 for 416 lengths of 10-in. c. i. water pipe with shell 75-100 ins. thick. Check, 50% of bid. F. H. Dixon, Secy. Bd. Pub. Wks.

TRUCKER, CAL.—The McGlashan Water Co. has been incorporated with a capital of $30,000 by C. F. McGlashan and Francis Finnigan to build works for this place.

SALT LAKE, UTAH.—Bids are asked until Dec. 26 for laying such water mains as may be required during the year. There will probably be laid about 15,000 ft. of 6-in., 5,000 ft. of 8-in., 1,600 ft. of 10-in. c.-i. pipe, besides valves, hydrants, castings, etc. Spencer Clawson, Chn. Com.

TORONTO, ONT.—City Engineer Rust has reported against the proposition of the Lake Simcoe Water Supply Syndicate to furnish this city a new water supply from Lake Simcoe.

ST. JOHN, N. B., CAN.—Hurd Peters, Cy. Engr., writes us that this city will extend the water mains in the spring at a cost of $9,000.

SEWERAGE

PORTLAND, ME.—The council has passed an ordinance for furnishing an estimate for the extension of the north side intercepting sewer to Preble St. Edwin M. Hunt is Secy. Bd. Pub. Wks.

BOSTON, MASS.—Reports state that Dennis F. O'Connell, 1 Beacon St., Boston, was the lowest bidder at $231,505 for building section 48 of the high level sewer in Quincy.

MELROSE, MASS.—This city has voted to adopt a system of surface drainage, for which the legislature gave the right to expend $100,000. Sidney H. Buttrick is Mayor.

WOONSOCKET, R. I.—Among other ordinances signed by Mayor Greene are the following: Ordinance appropriating $5,500 for new filter bed and sludge beds at filter fields; $4,150, for retaining wall on Elbow St.; $4,850, for completing, equipping and seating the new Social St. school house; also an ordinance for the construction of a sewer in Park Ave., between Pine and Logee Sts.

BRIDGEPORT, CONN.—The sewer committee, it is said, will ask the aldermen for an appropriation of $12,000 to build a trunk sewer in Noble Ave.

MERIDEN, CONN.—The council street committee has recommended that a total of 10,340 ft. of sewers be laid in 1903.

NEW BRITAIN, CONN.—Bids are asked until Jan. 6 for constructing section 2 of the New Britain sewer system, consisting of 1,048 ft. tunnel and 680 ft. approaches, manholes, etc., as is described in our advertising columns. Wm. H. Cadwell, Engr.; S. H. Stearns, Chn. Sewer Comrs.

SHELTON, CONN.—The matter of a sewer in Hill St. and portions of Prospect and Division Aves., estimated cost $3,500, has been referred to the sewer committee.

BABYLON, N. Y.—A report states that a pressing local need of this place, is an improved system of surface drainage.

PENN YAN, N. Y.—J. A. Ondemood, Pres., writes us that plans and specifications for a complete system of sewerage for this place are wanted. At a recent special election it was voted to expend $500 for this purpose.

RICHMOND HILL, N. Y.—Engineer Johnson, of the Queens Borough sewer department, is reported to be engaged on plans for the proposed sewerage system for this place to connect with the Jamaica disposal plant at Jamaica South.

ASBURY PARK, N. J.—The following bids for the construction of sewers at Bradley Beach have been received: James P. Hall, Jersey City, N. J., $46,117; Harrison Construction Co., Newark, N. J., $25,370; W. J. McCloud, Elizabeth, N. J., $24,532.

JERSEY CITY, N. J.—The street and water board have adopted resolutions for the reconstruction of sewers as follows: Sewer in Bay St., cost, $15,600; Van Vorst and Essex St. sewers, $8,085; sewer in Second St., $7,428. Chief Engineer Van Keuren has been directed to prepare plans for sewers in Belmont and Gardner Aves.; cost, $15,000. The contract for constructing a sewer in Carlton Ave. was let to Henry Byrne; the work will cost about $8,000.

NEWARK, N. J.—The Passaic Valley District Sewerage Commission are said to have decided upon a trunk outlet sewer from Paterson to New York Bay as the best method of doing away with the pollution of the Passaic River. Intercepting sewers will collect the sewage of the 20 or more municipalities which will form the district, and these will empty into the main trunk sewer, which will convey the deposits to deep water. A station will be built on the Jersey meadows to separate the solid matter from the fluid. It has been estimated that the total cost of the work will not be above $7,000,000.

BRYN MAWR, PA.—It is reported that efforts are being made here for the establishment of a sewerage system.

NORRISTOWN, PA.—Bids are asked until Dec. 22 for construsting 18-in. sanitary sewer in Markley St. S. Cameron Corson, Boro. Engr.; John H. Rex, Chn. Sewer Com.

READING, PA.—In the estimates of the board of public works for expenses for 1903 is an item of $12,000 for adding a settling basin to filter beds at the sewerage disposal plant.

ATTALLA, ALA.—The mater of sewerage is being discussed.

LAKE CHARLES, LA.—Plans and estimates for sanitary sewerage, issue by John W. Maxcy, Houston, Tex., have been presented to the council. The approximate cost of the system is about $240,000.

CINCINNATI, O.—Bids are asked until Jan. 2 for constructing a trunk sewer and drains, with necessary appurtenances, in the ravine west of Torrence Road. Robt. Allison, Pres. Bd. Pub. Ser.

FINDLAY, O.—The health board has recommended that a sewer be constructed from the present outlet of the W. A. Price, sewer along the open ditch to Eagle Creek.

GIRARD, O.—This city has been receiving bids for furnishing plans and specifications for a sewer system and disposal plant.

ST. BERNARD, O.—The St. Bernard Improvement Association has recommended that a trunk sewer be built through the village and arrangements made with other villages of the valley for the extension of the system along the Carthage pike. The estimated cost of such a system would be about $200,000.

FORT WAYNE, IND.—The public works board has been holding hearings regarding the construction of the proposed sewer in the south part of the city. This, with the eleven lateral branches, will make a total of about 7,000 ft. 12 to 30-in. pipe sewer to be laid.

INDIANAPOLIS, IND.—Petitions have been circulated asking for a complete sewer system for West Indianapolis.

SAULT STE. MARIE, MICH.—City Engineer McIlhargie has estimated the cost of the proposed Ashmun St. sewer (declared some time ago a public necessity) at $23,500. A 24-in. tile sewer would be laid between Portage Ave. and Spruce St. and 18-in. sewer between Spruce and the water power canal.

BUSHNELL, ILL.—A survey and estimate of cost for a sewer system for this place is to be made.

CENTRALIA, ILL.—Petitions are in circulation asking that the public improvement board take action for the construction of a system of sewerage.

EDWARDSVILLE, ILL.—This place is reported to be considering the introduction of a system of sewerage.

OTTAWA, ILL.—Chas. F. Wilson, Cy. Engr., writes us that an outline plan for a sewer system on the west side of the city was submitted to the property owners about Dec. 1. Detail plans are to be made and it is expected that work will be commenced the coming summer.

ROCKDALE, ILL.—This place recently voted for incorporation; it is said that this move was an outcome of a desire for good streets and walks and sewerage.

MADISON, WIS.—O. S. Norseman, Cy. Clk., writes us that the following bids were received Dec. 12 for constructing 2½ miles 6 to 12-in. sanitary sewers: John Delaney, Madison, Wis., $14,800; Harding, Nelson & Johnson, Racine, Wis., $13,975. The city engineers' estimate of the cost of the work was $12,300. Both bids were rejected and the city will do the work.

PUEBLO, COLO.—The Pueblo Business Men's Association have passed resolutions that the mayor and council should at once proceed to let the contract for building the storm and sanitary sewer system.

SEATTLE, WASH.—The contract for new sewers in Massachusetts St. and a number of other connecting streets has been let to Stirrat & Goetz for $15,104.

LONG BRANCH, CAL.—A special election is to be held Dec. 30 to vote on a $35,000 bond issue for constructing a main trunk sewer and outfall into the ocean.

LOS ANGELES, CAL.—It is stated that an election is to be held Dec. 30 to vote on the issuance of $35,000 of bonds to be used in constructing an 18-in. main sewer, with a separate tank and outfall to the ocean.

VENTURA, CAL.—The board of trustees are to call a special election to vote nearly $50,000 of bonds for storm sewers and other necessary town improvements.

LEVIS, QUE.—A project for the construction of waterworks and sewerage has been submitted to the council by A. A. Larochelle. The cost is estimated at $389,000.

BERLIN, ONT.—Reports state that sewage disposal system is to be improved by the addition of some septic tanks and the betterment of the filter beds.

PETERBOROUGH, ONT.—A by-law has been introduced in the council to borrow $20,000 for public improvements, which sum includes $5,000 for drainage.

WINGHAM, ONT.—A by-law is to be voted on at the January election for raising $6,655 for sewerage work and $20,934 for water-works construction.

GARBAGE DISPOSAL—STREET CLEANING

NEW HAVEN, CONN.—The health department has been asking for an appropriation of $23,000 for a garbage destroying plant. The finance committee, however, refused to allow the estimate.

NEW YORK, N. Y.—The contract for removing the snow for 1903 for the borough of Manhattan has been let to Wm. Bradley at 25 cts. per cu. yd.

ROCHESTER, N. Y.—J. Y. McClintock, Comr. Pub. Wks., has been investigating the Detroit system of garbage reduction to see what could be done toward introducing a system in this city. It is said that bids for garbage reduction will probably be asked, as well as for garbage collection.

BURLINGTON, N. J.—Reports state that bids are being taken by the Burlington Garbage Disposal Co., J. H. Brick, Jr., for a new Wiselogel system disposal plant at this place. The plant is to be of brick and steel, two stories, 127 ft. x 53 ft., and is to cost $20,000. Plans were made by the International Waste Utilization Co., Tremont Bldg., Boston, Mass.

NEW YORK, N. Y.—It is stated that a contract has been let by the health department for the erection and maintenance of a garbage incinerating plant at 140th St. and Rider Ave. It is estimated that the plant will cost about $40,000.

ATLANTA, GA.—The Lester Furnace Co., Atlanta, John E. Murphy, Pres., was the only bidder, Dec. 1, for garbage and night soil disposal for a term of three years. They offered to dispose of the matter by incineration at the following rates: Each barrel night soil, 12½ cts. each cart load garbage, etc., 12½ cts. All to be delivered at the company's furnace by the city. Dr. E. H. Richardson is Secy. Bd. Health.

SANDUSKY, O.—Plans are said to be in preparation by the United States Waste Utilization Co. for a garbage disposal plant, 56 x 120 ft., two stories high, of brick and iron, to be erected near this city. Wm. F. Seitz, Jr., is reported as interested.

TOLEDO, O.—The Business Men's Chamber of Commerce has received a proposition from the American Underwriting Co., Boston, Mass., for the establishment of a reduction plant for disposal of the city garbage.

GRAND RAPIDS, MICH.—Health Officer Korn is said to be agitating the necessity of some arrangement for separating the water from solids at the local crematory.

MILWAUKEE, WIS.—Alderman H. C. Schranck is interested in a resolution to authorize the health department to dispose of the ash from the garbage crematory if the same is found commercially available.

STREETS AND ROADS.

PORTLAND, ME.—Orders have been passed for the macadamizing of two streets and the paving with granite blocks of nine other streets; also for vitrified brick paving at three street intersections. Edwin M. Hunt is Secy.

CAMBRIDGE, MASS.—The council has adopted orders for the extension of Arcadia St. at a cost of $1,800, and the grading of Commercial St., at a cost of $4,200.

MANSFIELD, MASS.—At a recent town meeting $1,500 was voted toward the construction of a new road in the town.

PITTSFIELD, MASS.—A bond issue of $100,000 for street paving in 1903 is reported to have been voted at the recent election.

QUINCY, MASS.—Mayor Bryant has been authorized to petition the legislature to appropriate $200,000 for building a state boulevard along the shores of Quincy Bay to the Blue Hills.

SPRINGFIELD, MASS.—The council has appropriated $225,000 for the extension of Court Sq.

PITTSBURG, PA.—Surveys have been under way by Wm. Brown, Cy. Engr., looking to the widening of Second Ave., between Ross and Try Sts. According to the surveys, Second Ave. is to be made 70 ft wide in order to form a continuation of Try St. to the new South Tenth St. bridge.

FORT MEYER, VA.—Bids are asked until Jan. 10 for constructing macadam road. Capt. W. F. Clark, Q. M.

HUNTERSVILLE, VA.—A committee of citizens has been appointed to consider means for the permanent improvements of Church St. J. S. Coleman is Road Comr.

BIRMINGHAM, ALA.—Ordinances have been introduced in the council for brick paving on five streets and asphalt paving on four. Julian Kendrick is Cy. Engr.

TUSKEGEE, ALA.—W. A. Cloud, Co. Clk., writes us that Macon county has recently voted to issue $100,000 of bonds, for the improvement of the public roads, bridges, etc. No further steps have been taken in the matter. The legislature, however, meets in January, 1903, and some measures will then be enacted to bring this issue into force.

LOUISVILLE, KY.—The contract for paving four alleys with brick has been let to Henry L. Kremer for about $5,000.

NASHVILLE, TENN.—The council has passed ordinances appropriating $16,500 for paving Cherry St., and $10,000 for paving Market St.

CLEVELAND, O.—Bids are asked until Dec. 23 for grading, draining, curbing, paving with paving bricks and improvement of the following streets and avenues: Ackley Ave., Anson St., Bridge St., Carr St., Guy St., Hector St., Duluth St., Eastdale St., Homer St., Montrose St., Queen St., Shelburne St. Chas. P. Salen, Dir. Pub. Wks.; bids will also be received until Jan. 6 for improving in the same manner the following streets: Alabama St., Bliss Ave., Castle Ave., Chandler Ave., Dana St., Hamilton St., Lawrence St., Luther St., Malden St., Root St., Warren St.

COLUMBUS, O.—The contract for paving Pearl Alley with Bolen block has been let to Baldwin Brothers & Graham for $8,588.

COLUMBUS, O.—City Engineer Griggs has estimated the cost of the proposed improvement of Oregon Ave. with brick, at $4,821; with macadam, $3,570.

TOLEDO, O.—The following are the low bidders on paving of Detroit Ave., from Doer to Nebraska Ave.: Jas. Sheehan, vitrified brick, Athens block on sand, $12,377; James Lehaney & Co., kreodone creosoted block, $22,480; Jas. Sheehan, asphalt block, $21,562; on sand foundation, $21,562; C. H. Burchard, asphalt block on all other foundations, $21,528.

TOLEDO, O.—Bids are asked until Jan. 5 for paving of Willow Ave. Chas. H. Nants, Cy. Clk.

DELPHI, IND.—The contract for roads in Burlington and Democrat townships, 32 miles in all, has been let to Hiram Hillis & Co., Logansport, Ind., for $53,333.

LA PORTE, IND.—We are informed that at the opening of proposals Dec. 8 for macadamizing various county roads, R. H. Bertshe & Co., Alexandria, Ind., offered to do the work for $38,450. The contract was not let, the bids being rejected.

TERRE HAUTE, IND.—Bids are asked until Dec. 29 for grading, graveling and curbing roadway and paving sidewalks with cement concrete on Sixth and Seventh Aves. S. C. Beach, Secy. Bd. Pub. Wks.

LUDINGTON, MICH.—This city has voted to issue $20,000 of bonds for street improvements. The money will be spent in paving James St. north and continuing the work already begun on East Ludington Ave.

CHICAGO, ILL.—The board of local improvements has ordered the following streets paved with asphalt: Bissell St., $34,000; West 19th St., $63,500; Sibley St., $20,000; Selden St., $7,500; West 20th St., $23,500. The board also ordered Franklin Ave. paved with granite-top macadam, cost $14,000.

MADISON, WIS.—Bids are asked until Jan. 3 for grading, curbing and asphalt paving on Mifflin and Main Sts. O. S. Norsman, Cy. Clk.

WASHINGTON, IA.—The council has passed a resolution for paving the square and one block off each way; also the alleys near the block with brick. It is thought bids can be called for in January.

FORT WORTH, TEX.—The contract for paving Houston St. with brick and asphalt has been let to the Parker-Washington Co. for about $60,000. There is to be about 25,000 sq. yds. paving, of which 15,000 is to be of asphalt and the remainder of brick.

SEATTLE, WASH.—An estimate of the cost of grading, parking and curbing the Gales St. district shows that it can be done for $57,000. The improvement of Linden Ave. is estimated to cost $5,100.

Information concerning contracts to be let or of supplies to be purchased, and corrections of errors and omissions in published items, are invited.

MANUFACTURING PLANTS.

WHITEFIELD, N. H.—The plant of the Brown Lumber Co., at this place, was partly destroyed by fire on Dec. 6, entailing a loss of about $35,000.

BUFFALO, N. Y.—The International Steam Pump Co., successor to the Snow Pump Co., has filed plans for a factory building, 534 × 110 ft., doubling the capacity of the plant and costing about $110,000.

WEEDSPORT, N. Y.—The Weedsport Construction Co. has completed arrangements for the lease of the land situated north of the New York Central R. R. and south of the Lehigh Valley line, and will utilize the property as a site for a shop for the manufacture of steel and iron bridges. C. A. and W. A. Whitman are interested in the company.

JERSEY CITY, N. J.—The 3-story frame building, 100 × 50 ft., occupied by Wm. Hughes as a jute-bag factory, at Gilchrist and Monmouth Sts., was destroyed by fire on Dec. 9, the loss being about $25,000.

BURNHAM, PA.—The Standard Steel Co., of this place, will soon award a contract for a new wheel rolling mill here, to be of brick and steel construction, two stories high, and 72 × 140 ft.

CHESTER, PA.—The American Conduit Co., Chicago, and care A. W. Buchanan, 915 Edgemont Ave., Chester, will soon start plans for the erection of a plant here.

EASTON, PA.—David Townsend, Engr., 1418 South Penn Square Bldg., Philadelphia, has taken bids and will soon award the contract for an addition to the car shops of the Sterlingworth Ry. Supply Co. at Easton, to be of brick, one story, 100 × 175 ft.

PHILADELPHIA, PA.—C. E. Schermerhorn, Arch., 430 Walnut St., writes that bids for the yarn building to be built as an addition to the present plant of the Thos. Kent Mfg. Co., will be of brick and stone, two stories high, and cost about $50,000. The owners will let the contracts. The equipment will cost about $10,000.

PHILADELPHIA, PA.—Ballinger & Perrot, Archs. (successors to Hales & Ballinger), 12th and Chestnut Sts., have completed plans for a 2-story machine shop addition to the plant of H. B. Underwood & Co., 10th and Hamilton Sts., the addition to be 23 × 52 ft. and be built of brick.

PHILADELPHIA, PA.—The Crane Ice Cream Co. has purchased the lumber yard at 23d and Manning Sts. as a site for a new plant to take the place of the present one at 18th and Filbert Sts. It is the intention of the purchasing company to erect a 4-story fireproof plant to cover the entire track, which measures 110 × 240 ft., and competitive plans will be taken for the buildings. The buildings will include a power plant, electric plant and ice plant, in addition to the ice cream factory, etc.

POTTSTOWN, PA.—Bids are being taken by the Pottstown Hosiery Mills, care P. C. Fritz, for an addition to their plant here. The buildings will be of brick, slow-burning construction, four stories high, 40 × 80 ft., and will cost about $25,000.

CUMBERLAND, MD.—The Maryland Sheet Steel Co. has increased its capital stock from $50,000 to $100,000, to cover the cost of additional machinery.

NORFOLK, VA.—J. G. Wilson, Olean, N. Y., will remove his plant, manufacturing steel shutters, blinds and fireproof block floorings, to Norfolk, and J. Keevin Peebles, Arch., has prepared plans for the new buildings, and contracts have probably been awarded. About 400 men will be employed.

PETERSBURG, PA.—The Southside Mfg. Co., whose plant on South St. was recently destroyed by fire, will build a factory in Blanford, near the factory of the Bland Tobacco Co.

BALTIMORE, MD.—Bids are being taken by J. K. Peebles, Arch., Columbia Bldg., Norfolk, for a factory at Canton for the American Can Co., New York. The building will be of brick and steel construction, three stories high, 107 × 285 ft.——We are informed that the Hubbard Fertilizer Co., 711 Merchants' National Bank Bldg., will soon be ready for bids for a new plant at Canton, to be of brick and steel construction, two stories high, 150 × 200 ft., and to cost $100,000. Power, equipment, conveying and special machinery will be installed.

NEWPORT NEWS, VA.—P. Thornton Marye, Arch., Washington, D. C., is preparing plans for a shoe factory at this place for the Eagle Shoe Co., of Fredericksburg. It will be of brick, slow-burning, four stories high, and 40 × 150 ft.

WHEELING, W. VA.—It is stated that the Davees Car Wheel Co. has decided to establish large works here to manufacture car wheels after a new pattern, using chilled steel rim over a cast disk, costing $50,000, and that the Kirker Engine Co. will make a new engine and remodel the works, purchased from the Ceuber Foundry Co., for the manufacture of the same. Among those interested are C. R. Hubbard, J. B. McKee, L. S. Kirker and M. R. Wolff.

BIRMINGHAM, ALA.—T. C. Thompson and associates are organizing a company to erect a cotton mill at Siluria, Ala., 25 miles south of this city.

OWINGSVILLE, KY.—The Standard Oil Co. has purchased four acres of ground at Salt Lick, and will at once begin the erection of a boiler and machine works, employing about 50 men.

CANAL DOVER, O.—The corrugating mills, the paint shop, the storeroom and the building containing the four mills of the west side of the American Sheet Steel Co.'s mills, burned last week, with a loss of over $250,000 in buildings and machinery.

COLLINGWOOD, O.—The village of Collingwood has voted against the sale of liquor and as the result of the election the Lake Shore R. R. Co. will spend $1,000,000 in the construction of new shops, in addition to its present extensive plant.

TOLEDO, O.—A. Muntzenberger & Co., Chicago, it is reported, represent the Chicago and Eastern parties who propose establishing an independent malt house here, on which $300,000 will be expended.

TOLEDO, O.—Bids have been received by Architect Becker for the work of erecting the new foundry building at New York Ave. and Wheeling St. in Ironville for the Toledo Castings Co., recently organized. The building will be of brick, 65 × 100 ft. The contract has probably been awarded.

ANDERSON, IND.—The buildings of the Crystal Ice & Cold Storage Co. were completely destroyed by fire on Dec. 3, the damage amounting to about $50,000.

DETROIT, MICH.—Stevens & Blume, Archs., Washington Arcade, Detroit, write us that contracts will be let next month for the erection of the new foundry building for the Fairbanks-Morse Co. at Three Rivers. The building will be of steel and brick, with concrete foundation, 90 × 250 ft., and 50 ft. high. The foundry will be equipped with two cupolas, two electric cranes, smaller hand cranes, one air-hoist jib crane, elevators and sand conveyors, a complete system of tracks for an electric industrial railway, and other equipment for iron foundries. Address all communications to the architects.

GRAND RAPIDS, MICH.—The George Wettlaufer Mfg. Co., of Ontario, is said to be contemplating establishing a plant here. The company has asked for a guarantee of $30,000 stock.

ST. LOUIS, MO.—Negotiations are under way for the establishment of an independent cracker factory in this city with a capacity of 600 barrels of flour per day, and representing an investment of $500,000. A location is already being looked into. J. S. and J. L. Loose and John H. Wiles, Kansas City, are interested.

SILVERTON, COLO.—The Southwestern Fuel & Iron Co. has been incorporated and will erect a large Gage reduction plant at Silverton and an electric plant of 1,500 HP. at Bear Creek. The electric transmission lines will be built from Silverton up the Animas, Cement and Mineral creeks, to operate the company's mines. A track will be built from Bear Creek to the works at Silverton. At Farmington it is proposed to build a large steel plant. Among those interested are Chas. H. Gage, of the Gage Reduction Process, who is Pres. of the new company; H. C. Frick, Chn. of the Bd. of Control, and J. E. Krepps, Secy.-Treas.

SEATTLE, WASH.—The Washington Iron Works Co. will make improvements at its plant costing about $100,000. A new machine shop will be constructed, and an addition to the foundry built.

SPOKANE, WASH.—A new cracker factory will be built here by the Inland Cracker Co., composed of B. R. Ostrander, F. W. Keisling and J. E. Davis. It will have a capacity for consuming 50 barrels of flour daily.

SALT LAKE CITY, UTAH.—Local papers state that S. B. Milner, J. R. and M. H. Walker are planning to establish a city at Virgin Falls. They will erect blast furnaces, rolling mills and steel works with other manufactories and will invest about $20,000,000 in the enterprise. A railroad line will be built to connect the main line of the Salt Lake-Los Angeles road with the iron mines and the new city.

TORONTO, ONT.—The Dominion Wrought Iron Wheel Co., Ltd., of Toronto, has decided to build a factory at Orrilia this winter for the manufacture of wrought-iron wheels. J. B. and W. H. Tudhope and Wm. Thompson, Orrilia, are interested.——T. McQueen, Secy. Bd. Control, writes that there were two bids received on Dec. 9 for installing cold storage in the new St. Lawrence Market, respectively $30,620 and $41,200.

WINNIPEG, MAN.—John Clayton, of the Clayton Plow Mfg. Co., 23d Ave., N. E., Minneapolis, Minn., will build a branch factory just outside the city limits of Winnipeg.

CANADA.—Louis B. Jennings, Pres. Colonial Securities Co., 62 Wall St., New York, send us the following in regard to a note in our issue of Dec. 4, referring to the Canadian Steel & Coal Co.: The name is not A. L. Jennings, but is Louis B. Jennings. The Canadian Steel & Coal Co. own in fee simple 4,000 acres of rich iron deposit located at the mouth of the Natashquan River, Que. Since Major Bittinger's report to the U. S. government, the Canadian Steel & Coal Co. has added over 5,000 acres of coal property, and now control, all told, over 8,000 acres. This property is located in N. S., immediately adjoinig the property of the Dominion Coal Co., and is in full operation, turning out and marketing coal at the present day. Wm. F. Moeplenpah is Gen. Mgr., New York.

MISCELLANEOUS CONTRACTS.

SALT WATER FIRE SYSTEM.—Sausalito, Cal.—The question of installing a salt water system is being considered.

IRON LAMP POSTS.—St. Paul, Minn.—Next year's budget will probably contain an item of $15,000 for the purchase of iron lamp posts.

ORE DOCK.—Duluth, Minn.—The contract for constructing the Great Northern ore dock at Allouez has been let to the Barnett-Record Co.

ROAD GRADER AND ROLLER.—San Luis Obispo, Cal.—The street committee has recommended the purchase of a road grader and five-ton road roller.

DRAINAGE DITCH.—Clinton, Ill.—The contract for the Friends Creek drainage district ditch has been let to Charles Lewis, Tuscola, Ill., for $12,822.

DREDGING.—Boston, Mass.—Bids are asked until Jan. 22 for dredging in Boston Harbor, Mass., as stated in our advertising columns. Lt.-Col. W. S. Stanton, U. S. Engrs.

DRAINAGE CANAL.—North Yakima, Wash.—The East Sunnyside Drainage Canal Co. has been organized with J. T. Kuntz Pres., to drain land to the east of Sunnyside.

FREIGHT BARGES.—San Francisco, Cal.—The Southern Pacific R. R. Co., it is said, will construct two freight barges of a capacity of 15,000 tons. Each is to be 250 ft. long.

STAMP MILL.—Redding, Cal.—It is reported that the Five Pines Mining Co. has purchased the Five Pines mines in Trinity county, and will install a 20-stamp mill in the spring.

RIPRAP STONE.—Washington, D. C.—The contract for furnishing riprap stone for the Anacostia River Improvement has been let to Chas. G. Smith & Sons, Washington, D. C., for $8,600.

CONDUIT.—Montreal, Que.—The council is said to be considering a proposition to spend $1,000,000 in building a large conduit for underground wires in the business section of the city.

ROAD ROLLER AND STONE CRUSHER.—Bay City, Mich.—The county road commissioners are reported to be contemplating the purchase of a 10 or 11-ton road roller, and also a stone crusher.

LIGHT-HOUSES.—Washington, D. C.—The light-house board has recommended that $350,000 be appropriated for erection of eight light-houses in Alaska in addition to those already provided for.

HOT-AIR HEATING APPARATUS.—Victoria, B. C.—Bids are asked until Dec. 30 for installing hot-air heating apparatus in the drill sheds at Kamloops and Nelson. Wm. Henderson, Clk. Wks.

DRAINAGE DITCH.—Pine Bluff, Ark.—A committee, of which Sebastian Geisreiter is secretary, are considering the construction of a drainage canal for the improvement of about 50,000 acres of land.

TELEPHONE SERVICE.—Chattanooga, Tenn.—Parties from El Paso, Tex., headed by Mrs. Breet, owner of the El Paso Independent line, propose putting in an exchange here at a cost of $300,000.

BREAKWATER.—Buffalo, N. Y.—Reports from here state that about 200 ft. of the new breakwater wall, in course of construction by Huges Bros & Bangs, was washed away in a recent storm.

BRIDGE PLAZA.—Brooklyn, N. Y.—A board of estimate and appraisal has been appointed to condemn property adjacent to the new East River bridge in the Eastern District, wanted as a bridge plaza.

STEAM PROPELLER.—Washington, D. C.—Bids are asked until Jan. 10 for the construction of a steam propeller (exclusive of boiler) for the U. S. Revenue Cutter Service. O. L. Spaulding, Asst. Secy.

LIGHT STATION.—Mobile, Ala.—Bids are asked until Jan. 12 for constructing and erecting Oyster Bayou light station, Louisiana, as is stated in our advertising columns. Lt.-Col. A. N. Damrell, U. S. Engrs.

SEARCHLIGHT TOWER.—Washington, D. C.—Bids are asked until Dec. 20 for constructing a steel searchlight tower on building No. 22, New York navy yard. M. T. Endicott, Ch. Bureau Yds. & Docks.

TOWBOAT AND OUTFIT.—Memphis, Tenn.—Bids are asked until Jan. 14 for constructing steel hull towboat and furnishing outfit for same, as is stated in our advertising columns. Capt. Chas. L. Potter, U. S. Engrs.

CANAL RETAINING WALLS.—Columbia, O.—It is reported that F. H. Kirschner & Co., Cincinnati, O., were the lowest bidders for building retaining walls in the canal. The contract will amount to about $60,000.

MILL PLANT.—Lewiston, Idaho.—It is stated that a mill plant and concentrator are to be installed in the Wordenhoff group of mines in Thunder Mountain county early this spring. H. L. Hollister owns the group.

TELEPHONE WORK.—Jefferson, Wis.—A franchise for the construction and maintenance of a telephone exchange in this city has been granted to Frank P. Mansfield, Lake Mills, Wis. The line is to be completed by July, 1903.

PIER EXTENSION, ETC.—Duluth, Minn.—Bids are asked until Jan. 15 for building pier extension and additional superstructure at Grand Marais, Mich., as stated in our advertising columns. Capt. D. D. Gaillard, U. S. Engrs.

DREDGING AND JETTY WORK.—Newport, R. I.—Bids are asked until Jan. 15 for dredging and constructing jetties at Nautucket Harbor, Mass., as is stated in our advertising columns. Maj. Geo. W. Goetthalls, U. S. Engrs.

STAMPS AND CONCENTRATORS.—Coulterville, Cal.—The Diana Gold Mining Co. is said to be preparing for the erection of 20 more stamps with concentrators, to be operated by a turbine water wheel, at the Diana group of mines.

MECHANICAL STOKERS.—Kansas City, Mo.—Bids are asked until Dec. 29 for two mechanical stokers capable of furnishing 300 HP., burning bituminous slack coal, as stated in our advertising columns. Baxter Brown, Secy. W.-W. Bd.

COAL LAND.—Halifax, N. S.—The North American Coal & Development Co., of which Duncan Finlayson, M. P., Arichat, N. S., is a director, has purchased a tract of 8½ miles of coal lands at River Inhabitants, Cape Breton.

MINING MACHINERY.—Redding, Cal.—The Dorieska mine, on Coffee Creek, Trinity county, will, it is said, be equipped with new machinery in the spring. U. S. Marshal Osborne, Los Angeles, is one of the owners of the property.

CANTONMENT.—Monterey, Cal.—It is stated that the secretary of war has allotted $50,000, for the construction of a cantonment, to accommodate a squadron of cavalry at the U. S. army post. Capt. E. H. Plummer is the quartermaster.

DREDGE.—Pittsburg, Pa.—Plans have been in preparation for a large dipper dredge, to be built for the Dravo Contracting Co. A report of Dec. 11 stated that the company was then taking bids on the machinery and hull. The total cost will be about $20,000.

FIRE FIGHTING APPARATUS.—Birmingham, Ala.—Reports state that bids are to be called for at once for furnishing the fire department with two new hose wagons and an engine. The estimated cost of this equipment will be about $10,000, the new engine taking $6,000 of this.

PIPE LINE EXTENSION.—Wellsville, N. Y.—It has been voted to increase the capital stock of the United Pipe Line Co. from $100,000 to $150,000, for the purpose of extending the pipe line and making improvements. James B. Wakeman, Bolivar, N. Y., is a director of the company.

RAPID-FIRE GUNS.—Washington, D. C.—The contract for making 30 15-pounder rapid-fire guns and mounts has been let to the Bethlehem Steel Works at $3,930 for each gun and mount. The only other bid received was from the American & British Ordnance Co., at a slightly higher figure.

SEA WALL AND DOCK REPAIRS.—New York, N. Y.—The following bids were received Dec. 11 by the quarantine commissioners for repairs to the sea wall and docks at the upper quarantine station, Hoffman's Island: Ellery Colby, Owego, N. Y., $56,850; Snare & Triest, $65,525; P. Sanford Ross, $76,025.

TELEPHONE WORK.—Buffalo, N. Y.—The Independent Union Telephone Co. has voted to increase its capital stock from $200,000 to $1,000,000 for the purpose, it is said, of connecting its Western New York properties with those in Eastern and Southern New York. Samuel B. Rawson, Elyria, O., Pres.

REDUCTION PLANT.—Prescott, Ariz.—It is reported here that the Arizona Copper Mountain Mining Co., whose properties are about six miles from Kelvin, has determined to erect a large and thoroughly modern plant for the reduction of the body of copper ore which has been developed in the Copper Butte claim.

DREDGING.—Brooklyn, N. Y.—Bids are asked until Dec. 24 for the following dredging: Gowanus Canal, 25,000 cu. yds.; Wallabout Canal, 11,000 cu. yds.; East River, foot of Division Ave., 4,000 cu. yds.; Newtown Creek, foot of Metropolitan Ave., 2,000 cu. yds.; a total of 42,000 cu. yds. J. Edw. Swanstrom, Boro. Pres.

LEVEE AND DRAINWAY.—Colusa, Cal.—Reports state that the trustees of reclamation district 108 are to call for bids for the construction of a levee and drainway through a portion of the Colusa and Yolo Basin, work to be done by dredging, same approximating 1,000,000 cu. yds. of earth. T. H. Sullenger, Secy., Grimes, Cal.

DREDGE.—Nashville, Tenn.—We are informed that bids were received by Lt.-Col. M. B. Adams, U. S. Engrs., Nov. 24, for constructing a dredge, from the Osgood Dredge Co., Albany, N. Y., at $21,000, and from the Featherstone Foundry & Machine Co., Chicago, Ill., at $18,150. The contract was let to the lower bidder.

PARK.—Oakland, Cal.—A local press report states that citizens, among whom is Pres. Benjamin Ide Wheeler, have decided to incorporate a company to purchase 126 acres of land. This tract will pattern after the Burlingame in San Mateo. They will also erect a clubhouse and arrange for a polo field and football gridiron.

COMFORT STATIONS.—Brooklyn, N. Y.—In addition to the three comfort stations already provided for by an appropriation of $48,000, three more stations are planned for the near future. These are to be located at Greenpoint and Manhattan Aves., Hamilton Ave., Rapelye St. and Columbia St., and Eastern Parkway and Manhattan Ave.

MODEL TOWN.—Altoona, Pa.—A New York syndicate, according to reports, has purchased a large tract of land in Juniata borough, a suburb of this city, and proposes to erect on it a model town. One hundred houses of modern design will be erected as a beginning. The new town is to have paved streets, sewers, light and heat.

HARBOR OF REFUGE, DREDGING, ETC.—Newport, R. I.—E. S. Belden & Son, Hartford Conn., were the lowest bidders for the work of constructing the harbor of refuge and Great Salt Pond breakwater at Block Island. C. H. Latham, Hartford, was the lowest bidder for dredging Great Salt Pond, and Charles Cook, Fall River, Mass., was low bidder for dredging Newport Harbor.

Information concerning contracts to be let or of supplies to be purchased, and corrections of errors and omissions in published items, are invited.

SUMMER AND WINTER RESORT.—Cape May, N. J.—It is said that a syndicate backed by such men as Geo. J. Gould, H. C. Frick and A. J. Cassatt, intend to transform a section of the New Jersey coast, near Cape May, into an American Riviera at a cost of $11,000,000. Great hotels and cottages are to be built, a haven for yachts constructed, the waterways deepened, and a board walk and bulkhead built along the beach. The syndicate is represented by the Beachwood Improvement Co., of which State Senator Wm. E. Flinn is President.

FOREIGN CONTRACTS—EXPORT NEWS.

ELECTRIC RAILWAY.—Devenport, Eng.—Bids are asked until Dec. 29 for overhead equipment and double trolley line. C. Chadwell, Engr., 20 Victoria St., Westminster, Eng.

DOCK WORKS.—Belgium.—The office of the Scheldt Maritime, at Antwerp, will, on Feb. 12, receive tenders for the installation of two gate locks on the maritime lock of Kattendyk, Antwerp.

SALE OF WARSHIP.—Bermuda.—Bids are asked until Jan. 27 for the purchase of H. M. S. "Scorpion," a 2,730-ton coast-defence armored ship. E. A. S. Hayward, Naval Store Officer, Dockyard, Bermuda.

RAILS, ETC.—London, Eng.—Bids are asked until Dec. 22 for 2,248 tons of steel girder tramway rails, 1,470 tons of shop rails, 580 conductor tee-rails, fish-plates, bolts, etc., of the county tramways. G. L. Gomme, Clk., London County.

ELECTRIC TRAMWAY.—Malta.—The local (Malta) authority at Valette, on Nov. 28, considered offers for the concession of electric tramways between Valette and Senglea, Cospicua, Vettoriosa, and Casal Lebbug. Particulars from Wm. Casolari, Receiver-General and Director of Contracts, Valette, Malta.

PUBLIC LIGHTING.—Guayaquil, Ecuador.—Bids are asked by the secretary of the municipal council, Guayaquil until Feb. 12, for lighting this city with gas or electricity. Specifications may be seen at the office of Engineering News, 220 Broadway, New York, or may be received by writing to the Bureau of Foreign Commerce, Dept. of State, Washington, and asking for Consular Report of Dec. 11.

ROLLING STOCK.—Belgium and Germany.—We are informed that the Belgian State Railways Administration is preparing an adjudication for 136 passenger cars, second-class, and 80 third-class cars; besides 88 trucks. The upset average price is 10,000 francs per vehicle. On the other hand the German State Railways intend to order 416 locomotives, 831 passenger cars and 5,000 wagons, before November of next year. The Prussian State Railway wants 162 cars and wagons.

POWER PLANT.—San Luis Potosi, Mex.—We are informed that the Potosina Electric Light Co. will let contracts at once for a complete new electric plant, of about 1,000-HP. capacity. There will be required engines, generators and accessories and power house. It is probable that the installation will be made with gas engines, direct coupled to alternating-current, 60-cycle, 2-phase generators. The sizes of the units are not yet fixed. Sanderson & Porter, Engrs. and Contractors, 31 Nassau St., New York, should be addressed.

PUBLIC WORKS.—St. Petersburg, Russia.—We are informed that the committee of engineers, appointed some time ago to study the question of improved maritime installations for the port of St. Petersburg, has concluded its report. The committee recommends the carrying out of sundry important works, reconstruction of quays, the construction of a coal dock, the laying of new railway lines leading to the harbor, and the electric lighting of the port.——The project of holding an exhibition of electricity at St. Petersburg in the early part of 1903 has been decided upon. The plans are at present being prepared.

CONTRACT PRICES.

SEWERAGE SYSTEM.—St. Petersburg, Fla.—The following bids were received by J. P. Titcomb, Cy. Engr., on Dec. 10, for constructing a sewerage system in St. Petersburg. The city is to furnish all the pipe and the castings for the manholes and flushtanks. Six of the bids were rejected and the remainder were taken under advisement. The letting was advertised in Engineering News:

Bids Received at St. Petersburg, Fla., Dec. 10, 1902, for Constructing a Sewerage System.

Bidder.	Sewer pipe. 6-in., 6,025 lin. ft.	8-in., 4,420 lin. ft.	10-in., 1,970 lin. ft.	12-in., 860 lin. ft.	15-in., 325 lin. ft.	16-in. c.-i. pipe, 100 lin. ft.	Manholes, 25 each.	Flushtanks, 5 each.	Total.
Coates Plumbing Co., Tampa, Fla.	$0.31	$0.35	$0.39	$0.46	$0.46	$0.78	$42.00	$42.00	$6,066
Thomas Armstrong, New Brunswick, N. J.	.59	.46	.47	.58	.67	.76	26.50	38.50	8,161
H V Oliver, New Brunswick, N. J.	.51	.41	.41	.51	.61	.71	30.00	40.00	7,351
W. J McCarthy & Co., Somerville, Mass.	.80	.60	1.25	.50	.40	1.00	40.00	50.00	11,845
Geo. H. Fernald, Sanford, Fla.	.70	.75	.81	.65	.60	.65	37.50	45.00	11,110
H. Bomford & Co., Tampa (bid includes pipe)	.75	.87	1.10	1.25	1.35	4.20	45.00	60.00	14,140
Lee & Casey, Pittsburg, Pa.	.60	.60	.75	1.00	1.50	2.50	30.00	50.00	10,342
W. C. Porter, Laurel, Miss	.25	.30	.35	.50	.60	2.00	40.00	65.00	5,672
J. M. Baker, Jacksonville, Fla.	.38	.40	.60	.40	.37	.50	30.00	37.50	6,689

TOWER FOUNDATION.—New York, N. Y.—The following bids were received by Gustav Lindenthal, Comr. Bridges, on Dec. 11, for the construction of the foundation of the Manhattan tower of Bridge No. 3, over the East River; Items A is for work complete above elevation 79.15; B work between 79.15 and 83 (1,602 cu. yds.); C to G, 1,664 cu. yds. each between planes 4 ft. apart down to elevation 103:

	John G. Tait, 127 E. 72d St.	Degnon-McLean Cont. Co., 13 Park Row.	Duncan D. McBean, 330 W. 89th St.	John C. Rodgers, 536 W. 152d St.
Item A	$480,000	$612,500	$500,000	$450,000
" B	10.00	43.00	7.50	10.00
" C	10.00	36.00	7.50	10.00
" D	.01	26.90	7.50	.01
" E	.01	25.60	7.50	.01
" F	.01	24.60	7.50	.01
" G	.01	19.50	7.50	.01
Total	$512,727	$902,032	$574,415	$482,727

DREDGING.—Brooklyn, N. Y.—The only bid received by the public works commissioners on Dec. 10 for dredging the Wallabout and Gowanus Canals, the East River at the foot of Division Ave., and Newton Creek, at the foot of Metropolitan Ave., was submitted by the Morris & Cummings Dredging Co., at 73 cts. per cu. yd., with a total of $30,660.

DREDGING, ETC.—Newport, R. I.—The following bids were received by Maj. Geo. W. Goethals, U. S. Engrs., on Dec. 8, for dredging, etc., (1) improving harbor at Great Salt Pond, Block Island, R. I., (2) improving at Newport, (3) harbor of refuge at Block Island: John B. Randerson, Quay St., Albany, N. Y., (1) dredging 34 cts. per cu. yd.; Charles M. Cole, Fall River, Mass., (2) dredging 34¾ cts., removing boulders $18 per cu. yd.; J. S. Packard Dredging Co., Providence, R. I., (2) dredging 37 cts., removing boulders, $15 per cu. yd.; Charles H. Latham, Hartford, Conn., (1) dredging 26.7 cts.; E. S. Belden & Sons, Hartford, Conn., (1) dredging $1.23, (3) $2.17 per ton.

STEEL PIPE.—Troy, N. Y.—The following bids were received by the board of contract and supply on Dec. 5 for 33-in. steel-riveted pipe; (1) price per ft. for 3,100 ft. in rock; (2) 32,200 ft. in earth; (3) total: T. A. Gillespie Co., New York, (1) $6.80, (2) $7.40, (3) $259,360; Carroll, Porter & Co., New York, (1) 8.10, (2) $9.60, (3) $334,230; For furnishing cast-iron pipe and castings, (1) price per ton, (2) per lb., (3) total: Camden Iron Co., Camden, N.J., (1) $28.65, (3) $169,100; U. S. Cast-Iron Pipe & Foundry Co., Philadelphia, (1) $29.40, (2) 3¼ cts., (3) $177,253; Warren Foundry & Machine Co., New York, (1) $28.70, (2) 2.55 cts., (3) $172,324. For cast-iron pipe (1) in rock, (2) in earth, (3) total: McDonough Construction Co., Troy, (1) $5.50, (2) $4.81, (3) $159,280; Behan & Cavanaugh, Troy, (1) $7.00, (2) $3.50, (3) $137,200; P. H. McKenna, Troy, (1) $3.80, (2) $2.42, (3) $91,640; Frank M. Lewis, Troy, (1) $2.50, (2) $1.65, (3) $62,200. P. H. Harrison Sons Co., Troy, (1) $4.12, (2) $2.85, (3) $106,822.

SEWERAGE SYSTEM.—South Orange, N.J.—The following bids were received by the village trustees on Dec. 2 for constructing a sewerage system in the village of South Orange; contract awarded Louis Batt, South Orange; Alex. Potter, Engr., 150 Nassau St., New York:

Bids Received at South Orange N. J., Dec. 2, 1902, for Constructing a Sewerage System.

Quantities.	Ludwig Batt, South Orange, N. J.	David Peoples, Philadelphia, Pa.	Union Bldg. & Const'n Co., Passaic.	T. J. Shea, Quincy, Ill.	John F. Shanley, Newark, N. J.	Headley & Christie, Newark, N. J.	Harrison Const'n Co., Newark, N. J.	James Conway, Newark, N. J.
10-in. pipe, under 6 ft. 2,835 lin. ft.	$0.60	$0.76	$0.62	$0.63	$0.76	$0.95	$0.65	$0.88
10-in. " 6 to 8 ft. 2,560 " "	.65	.84	.67	.75	.75	1.00	.80	1.13
10-in. " 8 " 10 " 4,510 " "	.80	.90	.82	.90	.80	1.05	1.00	1.33
10-in. " 10 " 12 " 3,100 " "	.85	1.00	.97	1.15	.90	1.09	1.15	1.73
10-in. " 12 " 14 " 695 " "	1.00	1.25	1.27	1.30	1.05	1.10	1.60	1.75
8-in. " under 6 " 21,940 " "	.55	.53	.48	.53	.60	.78	.65	.85
8-in. " 6 to 8 " 53,650 " "	.60	.58	.55	.65	.70	.80	.80	.98
8-in. " 8 " 10 " 24,200 " "	.70	.66	.71	.80	.73	.85	1.00	1.20
8-in. " 10 " 12 " 4,460 " "	.70	.76	.85	1.10	.90	.90	1.05	1.40
8-in. " 12 " 14 " 1,330 " "	.80	.96	1.00	1.25	1.00	.95	1.50	2.00
8-in. " 14 " 16 " 200 " "	1.10	1.40	1.25	1.50	1.25	1.10	2.00	3.00
12-in. iron pipe (75 lb.) 48 " "	2.20	2.50	3.10	2.50	5.00	3.50	2.50	5.50
10-in. " " (60 lb.) 216 " "	1.80	2.25	2.65	2.00	4.50	2.25	2.25	5.50
8-in. " " (45 lb.) 504 " "	1.30	2.00	2.25	1.60	4.00	2.10	2.00	5.00
Manholes, 10 ft. or less 343 each	33.00	34.00	42.00	35.00	35.00	38.00	50.00	50.00
Manholes, over 10 ft. 90 "	4.00	4.00	6.00	3.50	5.00	7.50	5.00	5.50
Flushtanks* 79 "	60.00	58.00	90.00	60.00	65.00	69.00	125.00	100.00
10 × 4-in. branches 300 "	.70	.80	1.05	1.50	.90	1.00	1.00	.60
8 × 4-in. " 2,000 "	.50	.80	.70	1.15	.65	.75	.75	.60
Rock 2,500 cu. yds.	.70	2.00	2.00	2.00	3.20	3.00	3.00	4.00
Sheeting 50 M. ft.	5.00	30.00	20.00	35.00	30.00	35.00	35.00	20.00
Timber in foundation 10 "	30.00	30.00	30.00	50.00	50.00	60.00	40.00	40.00
Extra concrete 50 cu. yds.	5.00	7.50	10.00	12.00	10.00	9.00	10.00	8.00
Extra brickwork 50 " "	12.00	12.00	12.00	12.00	12.00	10.50	12.00	13.50
Tar joints on 10-in. 450 each	.10	.30	.35	.25	.30	.45	.50	.25
Tar joints on 8-in. 2,500 " "	.05	.20	.30	.25	.25	.30	.45	.20
Total	$98,009	$104,464	$107,586	$115,319	$119,259	$134,682	$144,526	$172,530

*Flushtanks with syphons and meters.

PAVING.—Fort Worth, Tex.—The following bids were received Nov. 21, 1902, for paving in Houston St.: Ockander & Sons, brick with No. 1 foundation, $1.77½; No. 2 foundation, $1.90; excavation, 48 cts. Parker-Washington Co., asphalt, No. 1 foundation, $2.07; No. 2 foundation, $2.22; brick, No. 1 foundation, $1.70; No. 2 foundation, $1.95; excavation, 60 cts. Brown & Dabney, brick, No. 1 foundation, $1.95; No. 2 foundation, $2.25; excavation, 50 cts. Barber Asphalt & Paving Co., American natural limestone and sandstone, No. 1 foundation, for asphalt, $1.98; same for No. 2 foundation, $2.11; excavation, 48 cts. Engineer's specification for foundation No. 1, $2.24½; No. 2, $2.37½; excavation, 48 cts. Parker-Washington Co., rocp asphalt, No. 1, concrete, 5-year guarantee $2; same, No. 2, 5-year guarantee, $2.15; rock asphalt, No. 1 foundation, 10-year guarantee, $2.07; rock asphalt, No. 2, 10-year guarantee, $2.22; excavation, 60 cts.

EMBANKMENT.—New York, N. Y.—The following bids were received by Maj. W. L. Marshall, U. S. Engrs., New York, on Dec. 8, for constructing an embankment in New York Harbor, southeast of Governor's Island, advertised in Engineering News, (1) rate of delivery per month on class 1, (2) rate of delivery per month on class 2, (3) price per cu. yd. class 1, (4) price per cu. yd. class 2: Wm. H. Taylor, 24 Emory St., Jersey City, N. J., (1) 25,000 cu. yds., (2) 30,000 cu. yds., (3) 9 cts., (4) 4 cts.; N. Y. Filling Co., 259 Washington St., Jersey City, N. J., (1) 25,000 cu. yds., (2) 40,000 cu. yds., (3) 7.4 cts., (4) 3.6 cts.; Hughes Bros. & Bangs, Syracuse, N. Y., (1 and 2) 30,000 cu. yds., (3) 8 cts., (4) 4 cts.; Brown & Fleming, 129 Broad St., N. Y. (1 and 2) 50,000 cu. yds., (3) 9 cts.

PIPE.—Ottumwa, Ia.—The council received bids on Dec. 1 for furnishing and laying the iron pipe for the new water-works system, and made the awards as follows: Furnishing pipe, United States Cast-Iron Pipe & Foundry Co., 6-in. pipe, per ton, $35.25; 8-in. pipe, $34.25; 12-in. pipe, $33.25; 14-in. pipe, $33.25; 16-in. pipe, $33.25; specials, per ton, $60; for laying pipe, Des Moines Bridge & Iron Works, 6-in. pipe, per lin. ft., 46 cts.; 8-in. pipe, 48 cts.; 12-in. pipe, 54 cts.; 14-in. pipe, 68 cts.; 16-in. pipe, 65 cts.

PAVING.—Hartford, Conn.—The following bids were received by Frederick L. Ford, Cy. Engr., on Dec. 13 from the Southern New England Paving Co., Hartford, Conn., for paving on Pearl St. The street is now paved with block asphalt (5-in. block on 2-in. sand cushion), and the contractor is to remove the cushion and surface to the city storeyard and put on a 4-in. layer of Portland cement concrete, 1 in. of binder and 2 ins. of sheet asphalt wearing surface: Five-year guarantee, $2.40 per sq. yd.; 10-year guarantee, $2.70; concrete per cu. yd., $6.60.

EXCAVATING.—Sacramento, Cal.—The following bids were received by D. D. McLaren, Secy. Auditing Board, Sacramento, on Nov. 26, for excavating a drainage canal in Solano county. The cut will be 10,000 ft. long, 60 ft. wide and 6 ft. deep. Contractors from San Francisco, except James Touhey, Sacramento: Healy, Tibbetts & Co., 13¾ cts. per cu. yd.; Bay & River Dredging Co., 10 cts.; James Touhey, 8.9 cts.; John Hackett, 8 cts.; Edward F. Haas, 7½ cts.

JETTY.—San Diego, Cal.—We are informed that the following bids were received Nov. 26, 1902, for continuing the San Diego jetty; Capt. Edgar Jadwin, U. S. Engrs.: P. A. Howard & F. D. Lanterman, Los Angeles, Cal., $2.17 per ton of 2,000 lbs., 92,166 tons (accepted); William H. Healy, San Francisco, $3.395, 83,508 tons; Atlantic, Gulf & Pacific Co., San Francisco, $2.50, 80,000 tons; Rudolf Axman, San Francisco, $2.47, 80,972 tons; Waldo S. Waterman, San Diego, $2.30, 86,957 tons.

INDUSTRIAL NOTES.

THE ALPHA PORTLAND CEMENT CO. has removed its general works from the works at Alpha, N. J., to Easton, Pa.

W. T. HISCOX & CO., 26 Cliff St., New York, have received the contract for supplying material for a 10-in. pipe line 10 miles in length for the Greene Consolidated Copper Co. at their mines, La Cananea, Mex.

LIBBE ENGINEERING & CONSTRUCTION CO., LTD., Toledo, O., has organized, built and equipped a factory and started to manufacture sewer and trench excavating machinery. J. H. W. Libbe is Pres. and M. J. Gavin Secy.

BALLINGER & PERROT, Architects and Engineers, southwest corner 12th and Chestnut Sts., Philadelphia, Pa., is the new name of the firm heretofore doing business as Hales & Ballinger. There is no change in the personnel of the firm. Mr. Edward M. Hales retired in July, 1901, but has since acted in a consulting capacity, and will continue his association with the firm as Consulting Architect. Mr. Emile G. Perrot has been a member of the firm since the retirement of Mr. Hales. Mr. Walter F. Ballinger is the other member.

GREENLEAF & DORING, Lewiston, Me., contractors and engineers, have made an assignment to Judge Geo. C. Wing, of Auburn. They are at present engaged in building a paper mill at Windsor Mills, Que., for the Canada Paper Co., and a dam at Franklin, N. H., for the Boston Excelsior Co. The firm is composed of John A. Greenleaf, Auburn, and R. L. Doring, Windsor Mills, Que.

THE PHILADELPHIA PNEUMATIC TOOL CO. has just completed the equipment of a new navy yard at Kiel, Germany, with an outfit of Keller pneumatic tools. The company reports an increasing trade on the Pacific Coast. Mr. O. A. Berger, the representative of the Philadelphia Co. in San Francisco, has just visited the home office, bringing with him some large orders from the various ship yards and steel works on the Pacific Coast.

THE INGOLDSBY AUTOMATIC CAR CO., St. Louis, has received the following orders for its patent dump cars: 10 for the St. Louis & San Francisco Ry. Co., of standard gage, 80,000 lbs. capacity, wood construction and equipped with the Ingoldsby Co.'s patent air-dumping device; 25 for the Cleveland Furnace Co., Cleveland, O., standard gage, 100,000 lbs. capacity, wood construction; 10 for the Colorado Fuel & Iron Co., narrow gage, 50,000 lbs. capacity, wood construction; two for the Guggenheim Exploration Co., Santa Barbara, Chihuahua, Mex., 30-in. gage, 22,000 lbs. capacity, steel construction, and three for the Texas Short Line Ry., standard gage, 100,000 lbs. capacity, wood construction. All these cars are to be built by the American Car & Foundry Co., at Detroit, Mich., and deliveries ranging from January to March, 1903.

WATER-WORKS.

Ardmore, Ind. Ter.

Sealed proposals, addressed to the City Clerk of Ardmore, Ind. Ter., will be received by said city until 2 o'clock p.m. of Tuesday, Jan. 6, 1903, for supplying the materials and doing work as follows in connection with Water-works construction:

A. Pumping Machinery.
B. Fire Hydrants, Gate Valves and Valve Boxes.
C. Steel Water-tower, 24 × 125 ft.
D. Laying about 12 miles of mains.
E. Constructing a Pumping Station.

A certified check must accompany each proposal equalling five (5) per cent. thereof.

A complete set of plans and specifications is on file in the offices of the engineer, Suite 707 No. 10 Wall St., New York city, and in San Antonio, and with the City Clerk in Ardmore. Copies will be furnished to intending bidders at cost.

The right is reserved by the city of Ardmore to reject any or all bids.

Address all inquiries to

CHESTER B. DAVIS, M.Am.Soc.C.E.,
Engineer, San Antonio, Tex.

R. W. DICK, Mayor.
GEO. H. BRUCE, City Clerk. 51-3t

Information concerning contracts to be let or of supplies to be purchased, and corrections of errors and omissions in published items, are invited.